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Legislation

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(1) Text with EEA relevance

Price: EUR 18,00



Acts whose titles are printed in light type are those relating to day-to-day management of agricultural matters, and are generally valid for a limited period.

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I

(Acts whose publication is obligatory)

COMMISSION REGULATION (EC) No 1084/2003

of 3 June 2003

concerning the examination of variations to the terms of a marketing authorisation for medicinal products for human use and veterinary medicinal products granted by a competent authority of a Member State

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Directive 2001/83/EC of the European Parliament and of the Council of 6 November 2001 on the Community code relating to medicinal products for human use (1), and in particular Article 35(1) thereof,

Having regard to Directive 2001/82/EC of the European Parliament and of the Council of 6 November 2001 on the Community code relating to veterinary medicinal products (2), and in particular Article 39(1) thereof,

Whereas:

- (1) In the light of practical experience in the application of Commission Regulation (EC) No 541/95 of 10 March 1995 concerning the examination of variations to the terms of a marketing authorisation granted by a competent authority of a Member State (3), as amended by Regulation (EC) No 1146/98 (4), it is appropriate to simplify the procedure for varying the terms of a marketing authorisation.
- (2) Some of the procedures laid down in Regulation (EC) No 541/95 should therefore be adjusted but without departing from the general principles on which those procedures are based.
- (3) In consequence of the adoption of Directives 2001/82/EC and 2001/83/EC, which codified Community legislation in the field of veterinary medicinal products and medicinal products for human use respectively, references to provisions of that legislation should be updated.

- (4) This Regulation should continue to apply also to the examination of applications for variation of the terms of a marketing authorisation granted under Council Directive 87/22/EEC (5) repealed by Directive 93/41/EEC (6).
- (5) It is appropriate to provide for a simplified and rapid notification procedure to enable the introduction of certain minor changes, which do not affect the approved quality, safety or efficacy of the product, without prior evaluation by the reference Member State. However, for other types of minor variation evaluation of the submitted documentation by the reference Member State should still be required.
- (6) In cases where the evaluation procedure is maintained the reference Member State should evaluate the file on behalf of all Member States concerned in order to avoid duplication of work.
- (7) The various types of minor variation should be classified according to the conditions to be fulfilled in order to determine the procedure to follow; it is particularly necessary to give a precise definition of the type of minor variation for which no prior evaluation is needed.
- (8) It is necessary to clarify the definition of an 'extension' to a marketing authorisation, although it should still be possible to submit a separate, full application for a marketing authorisation for a medicinal product which has already been authorised, but under a different name and with a different summary of product characteristics.

⁽¹⁾ OJ L 311, 28.11.2001, p. 67.

⁽²⁾ OJ L 311, 28.11.2001, p. 1.

⁽³⁾ OJ L 55, 11.3.1995, p. 7.

⁽⁴⁾ OJ L 159, 3.6.1998, p. 31.

⁽⁵⁾ OJ L 15, 17.1.1987, p. 38.

⁽⁶⁾ OJ L 214, 24.8.1993, p. 40.

- (9) It is appropriate to allow national authorities of the reference Member States to reduce the evaluation period in urgent cases or to extend it in the case of a major variation entailing important changes.
- (10) The time-frame for the procedure to be followed where the competent authority imposes urgent safety restrictions should be clarified.
- (11) Further clarification should be introduced as regards revision of the summary of product characteristics, labelling and package leaflet/insert; nevertheless the procedures laid down in this Regulation should not apply to changes to the labelling or to the package leaflet/insert which are not consequential to changes to the summary of product characteristics.
- (12) For the sake of clarity, it is appropriate to replace Regulation (EC) No 541/95.
- (13) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Medicinal Products for Human Use and the Standing Committee on Veterinary Medicinal Products,

HAS ADOPTED THIS REGULATION:

Article 1

Subject matter

This Regulation lays down the procedure for the examination of notifications of and applications for variations to the terms of a marketing authorisation of medicinal products which have been considered within the scope of application of Directive 87/22/EEC, of medicinal products having benefited from the procedures of mutual recognition set out in Articles 17, 18 and 28(4) of Directive 2001/83/EC or Articles 21, 22 and 32(4) of Directive 2001/82/EC, and medicinal products for which there has been a referral to the procedures set out in Articles 32, 33 and 34 of Directive 2001/83/EC or Articles 36, 37 and 38 of Directive 2001/82/EC.

Article 2

Scope

This Regulation shall not apply to:

 extensions of marketing authorisations which fulfil the conditions set out in Annex II to this Regulation;

- (b) transfers of a marketing authorisation to a new holder;
- (c) changes to the maximum residue limit as defined in Article 1(1)(b) of Council Regulation (EEC) No 2377/ 90 (1).

The extensions referred to in point (a) of the first paragraph shall be examined in accordance with the procedure referred to in Article 17 of Directive 2001/83/EC and in Article 21 of Directive 2001/82/EC.

Article 3

Definitions

For the purposes of this Regulation, the following definitions shall apply:

- 'Variation to the terms of a marketing authorisation' means:
 - (a) for medicinal products for human use: an amendment to the contents of the documents referred to in Articles 8 to 12 of Directive 2001/83/EC;
 - (b) for veterinary medicinal products: an amendment to the contents of the documents referred to in Articles 12 to 15 of Directive 2001/82/EC.
- A 'minor variation' of Type IA or Type IB means a variation listed in Annex I which fulfils the conditions set out therein.
- 3. A 'major variation' of Type II means a variation which cannot be deemed to be a minor variation or an extension of the marketing authorisation.
- 4. 'Reference Member State' means the Member State which, for a given medicinal product, has produced the assessment report which served as the basis for the procedures referred to in Article 1 or alternatively the Member State chosen in this respect by the marketing authorisation holder with a view to application of this Regulation.
- 5. 'Urgent safety restriction' means an interim change to the product information concerning particularly one or more of the following items in the summary of product characteristics, the indications, posology, contraindications, warnings, target species and withdrawal periods, due to new information having a bearing on the safe use of the medicinal product.

⁽¹⁾ OJ L 224, 18.8.1990, p. 1.

Article 4

Notification procedure for minor variations type IA

- 1. With regard to minor variations of type IA, the marketing authorisation holder (hereinafter referred to as the holder) shall submit simultaneously to the competent authorities of the Member States where the medicinal product has been authorised a notification accompanied by:
- (a) all necessary documents including those amended as a result of the variation;
- (b) a list of the Member States concerned and an indication of the reference Member State for the medicinal product under consideration;
- (c) the relevant fees provided for in the applicable national rules in the Member States concerned.
- 2. A notification shall only concern one type IA variation. Where several type IA variations are to be made to the terms of a single marketing authorisation, a separate notification shall be submitted in respect of each type IA variation sought; each such notification shall also contain a reference to the other notifications.
- 3. By way of derogation from paragraph 2, where a type IA variation to the marketing authorisation leads to consequential type IA variations, a single notification may cover all such variations. The single notification shall contain a description of the relation between these consequential type IA variations.
- 4. Where a variation requires consequential revision of the summary of product characteristics, labelling and package leaflet/insert, this is considered as part of the variation.
- 5. If the notification fulfils the requirements set out in paragraphs 1 to 4, the competent authority of the reference Member State shall within 14 days following receipt of the notification acknowledge the validity of this notification and shall inform the other competent authorities concerned and the holder accordingly.

Each competent authority concerned shall, where necessary, update the marketing authorisation, which has been granted pursuant to Article 6 of Directive 2001/83/EC or Article 5 of Directive 2001/82/EC.

Article 5

Notification procedure for minor variations type IB

1. With regard to minor variations of type IB, the holder shall submit simultaneously to the competent authorities of the Member States where the medicinal product has been authorised, the notification accompanied by:

- (a) all necessary documents, including those amended as a result of the variation:
- (b) a list of Member States concerned and an indication of the reference Member State for the medicinal product under consideration;
- (c) the relevant fees provided for in the applicable national rules in the Member States concerned.
- 2. A notification shall only concern one type IB variation. Where several type IB variations are to be made to the terms of a single marketing authorisation, a separate notification shall be submitted in respect of each type IB variation sought; each such notification shall also contain a reference to the other notifications.
- 3. By way of derogation from paragraph 2, where a type IB variation to the marketing authorisation leads to consequential type IA or type IB variations, a single type IB notification may cover all such consequential variations. The single notification shall contain a description of the relation between these consequential type I variations.
- 4. Where a variation requires consequential revision of the summary of product characteristics, labelling and package leaflet/insert, this is considered as part of the variation.
- 5. If the notification fulfils the requirements set out in paragraphs 1 to 4, the competent authority of the reference Member State shall acknowledge receipt of a valid notification and shall start the procedure set out in paragraphs 6 to 11.
- 6. If, within 30 days of the date of the acknowledgement of receipt of a valid notification the competent authority of the reference Member State has not sent the holder its opinion provided for in paragraph 8, the notified variation shall be deemed to have been accepted by all competent authorities of the Member States concerned.

The competent authority of the reference Member State shall inform the other competent authorities of the Member States concerned to this effect.

- 7. Each competent authority concerned shall, where necessary, update the marketing authorisation which has been granted pursuant to Article 6 of Directive 2001/83/EC or Article 5 of Directive 2001/82/EC.
- 8. Where the competent authority of the reference Member State is of the opinion that the notification cannot be accepted, it shall, within the period referred to in paragraph 6, inform the holder who has submitted the notification, stating the grounds on which its opinion is based.

- 9. Within 30 days of receipt of the opinion referred to in paragraph 8, the holder may amend the notification in order to take due account of the grounds set out in the opinion. In that case the provisions of paragraphs 6 and 7 shall apply to the amended notification.
- 10. If the holder does not amend the notification, the notification shall be deemed to have been rejected. The competent authority of the reference Member State shall forthwith inform the holder and the other competent authorities concerned accordingly.
- 11. Within 10 days of providing the information referred to in paragraph 10, competent authorities of the Member States concerned or the holder may refer the matter to the Agency for application of Article 35(2) of Directive 2001/83/EC or Article 39(2) of Directive 2001/82/EC.

Article 6

Approval procedure for major variations type II

- 1. With regard to major variations of type II, the holder shall submit simultaneously to the competent authorities of the Member States where the medicinal product has been authorised an application accompanied by:
- the relevant particulars and supporting documents referred to in Articles 8 to 12 of Directive 2001/83/EC or Articles 12 to 15 of Directive 2001/82/EC;
- (b) the supporting data relating to the variation applied for;
- (c) all documents amended as a result of the application;
- (d) an addendum to or update of existing expert reports/ overviews/summaries to take account of the variation applied for;
- (e) a list of the Member States concerned by the application for the major variation type II and an indication of the reference Member State for the medicinal product under consideration;
- (f) the relevant fees provided for in the applicable national rules in the Member States concerned.
- 2. An application shall only concern one type II variation. Where several type II variations are to be made to a single marketing authorisation, a separate application shall be submitted in respect of each variation sought; each such application shall contain also a reference to the other applications.
- 3. By way of derogation from paragraph 2, where a type II variation leads to consequential variations, a single application may cover all such variations. The single application shall contain a description of the relation between these consequential variations.

- 4. Where a variation requires consequential revision of the summary of product characteristics, labelling and package leaflet/insert, this is considered as part of the variation.
- 5. If the application fulfils the requirements set out in paragraphs 1 to 4, the competent authorities of the Member States concerned shall forthwith notify the competent authority of the reference Member States about the receipt of the valid application.
- 6. The competent authority of the reference Member State shall inform the other competent authorities of the Member States concerned and the holder of the date of the start of the procedure set out in paragraphs 7 to 13.
- 7. Within 60 days from the start of the procedure, the competent authority of the reference Member State shall prepare an assessment report and a draft decision which shall be addressed to the other competent authorities concerned.

This period may be reduced having regard to the urgency of the matter particularly for safety issues.

This period may be extended to 90 days for variations concerning changes to or addition of the therapeutic indications.

This period shall be extended to 90 days for variations concerning a change to or addition of a non-food producing target species.

8. Within the periods laid down in paragraph 7, the competent authority of the reference Member State may request the holder to provide supplementary information within a time limit set by that competent authority. The procedure shall be suspended until such time as the supplementary information has been provided. In this case the periods laid down in paragraph 7 may be extended for a further period to be determined by the competent authority of the reference Member State.

The competent authority of the reference Member State shall inform the other competent authorities concerned.

9. Within 30 days following receipt of the draft decision and the assessment report, the other competent authorities of the Member States concerned shall recognise the draft decision and inform the competent authority of the reference Member State to this effect.

The competent authority of the reference Member State shall close the procedure and shall inform the other competent authorities concerned and the holder accordingly.

- 10. Each competent authority concerned shall, where necessary, amend the marketing authorisation concerned which has been granted pursuant to Article 6 of Directive 2001/83/EC or Article 5 of Directive 2001/82/EC in conformity with the draft decision referred to paragraph 9.
- 11. Decisions concerning variations related to safety issues shall be implemented within a timeframe as agreed between the competent authority of the reference Member State and the holder in consultation with the other competent authorities of the Member States concerned.
- 12. If within the period laid down in paragraph 9, mutual recognition by one or more of the competent authorities of the draft decision of the competent authority of the reference Member State is not possible, the procedure referred to in Article 35(2) of Directive 2001/83/EC or Article 39(2) of Directive 2001/82/EC shall apply.
- 13. Within 10 days of the end of the procedure mentioned in paragraph 8 and in case where the competent authorities of the Member States concerned by the application are of the opinion that the variation cannot be accepted, the holder may refer the matter to the Agency for application of Article 35(2) of Directive 2001/83/EC or Article 39(2) of Directive 2001/82/EC.

Article 7

Human influenza vaccines

- 1. With regard to variations to the terms of the marketing authorisations for human influenza vaccines, the procedure set out in paragraphs 2 to 5 shall apply.
- 2. Within 30 days following the date of the start of the procedure, the competent authority of the reference Member State shall prepare an assessment report on the basis of the quality documents referred to in Module 3 of Annex I to Directive 2001/83/EC and a draft decision which shall be addressed to the other competent authorities concerned.
- 3. Within the period laid down in paragraph 2, the competent authority of the reference Member State may request the holder to provide supplementary information. It shall inform the other competent authorities of the Member States concerned.
- 4. Within 12 days of receipt of the draft decision and the assessment report, the other competent authorities of the Member States concerned shall recognise the draft decision and inform the competent authority of the reference Member State to this effect.

5. The clinical data and, where appropriate, data concerning the stability of the medicinal product, shall be addressed by the holder to the competent authority of the reference Member State and to the other competent authorities of the Member States concerned, at the latest 12 days following the end of the time limit laid down in paragraph 4.

The competent authority of the reference Member State shall evaluate these data and draft a final decision within 7 days of the receipt of the data. The other competent authorities concerned shall recognise the final draft decision and, within 7 days of the receipt of the draft final decision, adopt a decision in conformity with the final draft decision.

6. If, in the course of the procedure laid down in paragraphs 2 to 5, a competent authority raises a question of public health which they consider poses an obstacle to the mutual recognition of the decision to be taken, the procedure referred to in Article 35(2) of Directive 2001/83/EC shall apply.

Article 8

Pandemic situation with respect to human diseases

In case of a pandemic situation with respect to the human influenza virus, duly recognised by the World Health Organisation or by the Community in the framework of Decision No 2119/98/EC of the European Parliament and of the Council (¹), competent authorities may exceptionally and temporarily consider the variation to the terms of the marketing authorisation for human influenza vaccines to be accepted after an application has been received and before the end of the procedure laid down in Article 7. Nevertheless, complete clinical safety and efficacy data can be submitted during this procedure.

In case of a pandemic situation with respect to human diseases other than the human influenza virus, the first paragraph and Article 7 may be applied *mutatis mutandis*.

Article 9

Urgent safety restrictions

1. If the holder, in the event of risk to public or animal health, takes urgent safety restrictions, he/she shall forthwith inform the competent authorities thereof. If the competent authorities have not raised any objections within 24 hours following receipt of that information, the urgent safety restrictions shall be deemed to have been accepted.

The urgent safety restriction shall be implemented within a timeframe, as agreed with the competent authorities.

⁽¹⁾ OJ L 268, 3.10.1998, p. 1.

The corresponding variation application reflecting the urgent safety restriction shall be submitted immediately and in any case not later than 15 days after the initiation of the urgent safety restriction, to the competent authorities for the application of the procedures set out in Article 6.

2. Where competent authorities impose urgent safety restrictions on the holder, the holder shall be obliged to submit an application for a variation taking account of the safety restrictions imposed by the competent authorities.

The urgent safety restriction shall be implemented within a timeframe, as agreed with the competent authorities.

The corresponding variation application reflecting the urgent safety restriction, including appropriate documentation in support of the change, shall be submitted immediately and in any case not later than 15 days after the initiation of the urgent safety restriction, to the competent authorities concerned for the application of the procedures set out in Article 6.

This paragraph is without prejudice to Article 36 of Directive 2001/83/EC and Article 40 of Directive 2001/82/EC.

Article 10

Repeal

Regulation (EC) No 541/95 is repealed.

References to the repealed Regulation shall be construed as references to this Regulation.

Article 11

This Regulation shall enter into force on the twentieth day following that of its publication in the Official Journal of the European Union.

It shall apply from 1 October 2003.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 3 June 2003.

For the Commission

Erkki LIIKANEN

Member of the Commission

ANNEX I

LIST AND CONDITIONS FOR MINOR VARIATIONS (TYPE IA AND IB) TO A MARKETING AUTHORIS-ATION AS REFERRED TO IN ARTICLES 3 TO 5

Introductory statements

The titles of the variations are numbered and subcategories depicted by letters and numbers in smaller font. The conditions necessary for a given variation to follow either a type IA or a type IB procedure are outlined for each subcategory and listed below each variation.

To cover any other changes, it is necessary to submit applications for any consequential or parallel variations, which may be linked to the change applied for, at the same time and to clearly describe the relation between these variations.

For notifications including a certificate of suitability from the European pharmacopoeia and when the variation concerns the dossier submitted for the certificate, the documentation required for this change is to be submitted to the European Directorate for the Quality of Medicines (EDQM). If the certificate is revised following evaluation of this change, any marketing authorisation concerned must be updated. In many cases this can be done through a type IA notification.

A biological medicinal product is a product, the active substance of which is a biological substance. A biological substance is a substance that is produced by or extracted from a biological source and for which a combination of physico-chemical-biological testing and the production process and its control is needed for its characterisation and the determination of its quality.

As a result, the following shall be considered as biological medicinal products: immunological medicinal products and medicinal products derived from human blood and human plasma as defined in Articles 1(4) and 1(10) of Directive 2001/83/EC, respectively; immunological veterinary medicinal products as defined in Article 1(7) of Directive 2001/82/EC; medicinal products falling within the scope of part A of the Annex to Council Regulation (EEC) No 2309/93 (¹); advanced therapy medicinal products as defined in part IV of Annex I to Directive 2001/83/EC

A change in the manufacturing process of a non-proteinaceous component due to a subsequent introduction of a biotechnology step can be made in accordance with the provisions of variations type I No 15 or No 21 as appropriate. This specific variation is without prejudice to other variations listed in this Annex which can be applied in this particular context. Introduction of a proteinaceous component obtained through a biotechnology process listed in part A of the Annex to Council Regulation (EEC) No 2309/93 in a medicinal product fall within the scope of said Regulation. Community legislation applicable to specific groups of products (²) shall be complied with.

There is no need to notify the competent authorities of an updated monograph of the European pharmacopoeia or a national pharmacopoeia of a Member State in the case that compliance with updated monograph is implemented within 6 months of its publication and reference is made to the 'current edition' in the dossier of an authorised medicinal product.

For the purposes of this document, test procedure has the same meaning as analytical procedure and limits have the same meaning as acceptance criteria.

The Commission, in consultation with member states, the Agency and interested parties, will draw up and publish detailed guidance on the documentation to be submitted.

⁽¹⁾ OJ L 214, 24.8.1993, p. 1.

⁽²⁾ Food and food ingredients compliant with Regulation (EC) No 258/97 of the European Parliament and the Council (OJ L 43, 14.2.1997, p. 1), colours for use in foodstuffs within the scope of Council Directive 94/36/EC (OJ L 237, 10.9.1994, p. 13), food additives within the scope of Council Directive 88/388/EEC (OJ L 184, 15.7.1988, p. 61), extraction solvents within the meaning of Council Directive 88/344/EEC (OJ L 157, 24.6.1988, p. 28) as last amended by Directive 92/115/EEC (OJ L 409, 31.12.1992, p. 31) and foods or food ingredients derived from a biotechnology step which has been introduced into the manufacturing/production are not required to be notified as a variation to the terms of the marketing authorisation.

	Title of variation/conditions to be fulfilled	Ту
Cha	nge in the name and/or address of the marketing authorisation holder	I
	litions: narketing authorisation holder shall remain the same legal entity.	
Cha	nge in the name of the medicinal product]
	litions: onfusion with the names of existing medicinal products or with the international non-proprietary name	
Cha	nge in the name of the active substance]
	itions: ctive substance shall remain the same.	
	nge in the name and/or address of a manufacturer of the active substance where no European macopoeia certificate of suitability is available	I
	litions: nanufacturing site shall remain the same.	
Cha	nge in the name and/or address of a manufacturer of the finished product	I
	itions: nanufacturing site shall remain the same.	
Cha	nge in ATC Code	
(a) Medicinal products for human use		I
Conditions: Change following granting of or amendment to ATC code by WHO.		
(b)	Veterinary medicinal products	I
	Conditions: Change following granting of or amendment to ATC Vet code.	
	acement or addition of a manufacturing site for part or all of the manufacturing process of the hed product	
(a)	Secondary packaging for all types of pharmaceutical forms Conditions: 1, 2 (see below)]
(b)	Primary packaging site	
	1. Solid pharmaceutical forms, e.g. tablets and capsules Conditions: 1, 2, 3, 5	I
	2. Semi-solid or liquid pharmaceutical forms Conditions: 1, 2, 3, 5]
	3. Liquid pharmaceutical forms (suspensions, emulsions) Conditions: 1, 2, 3, 4, 5]
		I

	Title of variation/conditions to be fulf	illed	Т	
Con	Conditions:			
1.	Satisfactory inspection in the last three years by an inspection see EEA or of a country where an operational good manufacturi agreement (MRA) exists between the country concerned and the	ing practice (GMP) mutual recognition		
2.	Site appropriately authorised (to manufacture the pharmaceutica	l form or product concerned).		
3. Product concerned is not a sterile product.				
4.	Validation scheme is available or validation of the manufactur carried out according to the current protocol with at least three p			
5.	Product concerned is not a biological medicinal product.			
Cha	ange in batch release arrangements and quality control testin	ng of the finished product		
(a)	Replacement or addition of a site where batch control/testing takes place	Conditions: 2, 3, 4 (see below)	I	
(b)	Replacement or addition of a manufacturer responsible for batch release			
	Not including batch control/testing	Conditions: 1, 2	I	
	2. Including batch control/testing	Conditions: 1, 2, 3, 4	I	
Con	ditions:			
1.	The manufacturer responsible for batch release must be located v	vithin the EEA.		
2.	The site is appropriately authorised.			
3.	The product is not a biological medicinal product.			
4.	Method transfer from the old to the new site or new test laborate	ory has been successfully completed.		
	etion of any manufacturing site (including for an active s duct, packaging site, manufacturer responsible for batch rel ce)		I	
Con	ditions:			
None				
Min	or change in the manufacturing process of the active substa	ance		
Con	ditions:			
1.	No change in qualitative and quantitative impurity profile or in p	physico-chemical properties.		
2.	The active substance is not a biological substance.			
 The synthetic route remains the same, i.e. intermediates remain the same. In the case of herbal medicinal products, the geographical source, production of the herbal substance and the manufacturing route remain the same. 				

	Title of variation/conditions to be fulfilled			Туро
	Change in batch size of active substance or intermediate			
(á	a)	Up to 10-fold compared to the original batch size approved at the grant of the marketing authorisation	Conditions: 1, 2, 3, 4 (see below)	IA
(1	b)	Downscaling	Conditions: 1, 2, 3, 4, 5	IA
(0	c)	More than 10-fold compared to the original batch size approved at the grant of the marketing authorisation	Conditions: 1, 2, 3, 4	IB
C	Condi	itions:		
1	•	Any changes to the manufacturing methods are only those necessized equipment.	essitated by scale-up, e.g. use of different	
2	2.	Test results of at least two batches according to the specificatio batch size.	ns should be available for the proposed	
3	s.	The active substance is not a biological substance.		
4 5		The change does not affect the reproducibility of the process. The change should not be the result of unexpected events ari stability concerns.	sing during manufacture or because of	
		ge in the specification of an active substance or a starting emanufacturing process of the active substance	; material/intermediate/reagent used	
(6	a)	Tightening of specification limits	Conditions: 1, 2, 3 (see below)	IA
			Conditions: 2, 3	IB
(1	b)	Addition of a new test parameter to the specification of		
_		1. An active substance	Conditions: 2, 4, 5	IB
		2. A starting material/intermediate/ reagent used in the manufacturing process of the active substance	Conditions: 2, 4	IB
-	ondi	itions:		
1		The change is not a consequence of any commitment from prev limits (e.g. made during the procedure for the marketing authority procedure).		
2	2.	The change should not be the result of unexpected events arising	during manufacture.	
3	3 .	Any change should be within the range of currently approved lin	nits.	
4	ŀ.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	
5	j.	The active substance is not a biological substance.		
	Change in test procedure for active substance or starting material, intermediate, or reagent used in the manufacturing process of the active substance			
(á	a)	Minor change to an approved test procedure	Conditions: 1, 2, 3, 5 (see below)	IA
(l	b)	Other changes to a test procedure, including replacement or addition of a test procedure	Conditions: 2, 3, 4, 5	IB

Title of variation/conditions to be fulfilled		illed	Тур
Con	ditions:		
1.	The method of analysis should remain the same (e.g. a change in a different type of column or method); no new impurities are det		
2.	Appropriate (re-)validation studies have been performed in according	dance with relevant guidelines.	
3.	Results of method validation show new test procedure to be at le	east equivalent to the former procedure.	
4.	 4. Any new test method does not concern a novel non-standard technique or a standard technique used in a novel way. 5. The active substance, starting material, intermediate or reagent is not a biological substance. 		
5. —	The active substance, starting material, intermediate or reagent is	not a biological substance.	
ma	ange in the manufacturer of the active substance or starting nufacturing process of the active substance where no Euro ability is available		
(a)	Change in site of the already approved manufacturer (replacement or addition)	Conditions: 1, 2, 4 (see below)	IB
(b)	New manufacturer (replacement or addition)	Conditions: 1, 2, 3, 4	IB
Con	ditions:		
1.	The specifications (including in-process controls, methods of preparation (including batch size) and detailed route of synthesis		
2.	Where materials of human or animal origin are used in the pronew supplier for which assessment is required of viral safety or Guidance on minimising the risk of transmitting animal spongi and veterinary medicinal products'.	of compliance with the current 'Note for	
3.	The current or new active substance manufacturer does not use a	a Drug Master File.	
4.	The change does not concern a medicinal product containing a b	piological active substance.	
Sub	The change does not concern a medicinal product containing a bound of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mostance	ertificate of suitability for an active	
Sub	omission of a new or updated European Pharmacopoeia costance or starting material/reagent/intermediate in the m	ertificate of suitability for an active	IA
Sub sub sub	omission of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mistance	ertificate of suitability for an active anufacturing process of the active	IA
Sub sub sub	omission of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mistance From a manufacturer currently approved	ertificate of suitability for an active anufacturing process of the active	
Sub sub sub	omission of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mistance From a manufacturer currently approved From a new manufacturer (replacement or addition)	ertificate of suitability for an active anufacturing process of the active Conditions: 1, 2, 4 (see below)	IB
Sub sub sub	omission of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mistance From a manufacturer currently approved From a new manufacturer (replacement or addition) 1. Sterile substance	certificate of suitability for an active anufacturing process of the active Conditions: 1, 2, 4 (see below) Conditions: 1, 2, 3, 4	IB
Sub s	pomission of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mistance From a manufacturer currently approved From a new manufacturer (replacement or addition) 1. Sterile substance 2. Other substances	certificate of suitability for an active anufacturing process of the active Conditions: 1, 2, 4 (see below) Conditions: 1, 2, 3, 4 Conditions: 1, 2, 3, 4	IA IB IA IB
Sub s	principles of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mistance From a manufacturer currently approved From a new manufacturer (replacement or addition) 1. Sterile substance 2. Other substances Substance in veterinary medicinal product for use in animal species susceptible to TSE dditions: The finished product release and end of shelf life specifications related to the manufacturer of the manufacturer (replacement or addition).	certificate of suitability for an active anufacturing process of the active Conditions: 1, 2, 4 (see below) Conditions: 1, 2, 3, 4 Conditions: 1, 2, 3, 4 certain the same.	IB IA
Subsubsub (a) (b) (c) Con	principles of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mistance From a manufacturer currently approved From a new manufacturer (replacement or addition) 1. Sterile substance 2. Other substances Substance in veterinary medicinal product for use in animal species susceptible to TSE additions: The finished product release and end of shelf life specifications refundanced additional (to European Pharmacopoeia) specifications requirements (e.g. particle size profiles, polymorphic form), if approximate the mistance of the mist	certificate of suitability for an active anufacturing process of the active Conditions: 1, 2, 4 (see below) Conditions: 1, 2, 3, 4 Conditions: 1, 2, 3, 4 Conditions: 1, 2, 3, 4 emain the same. cons for impurities and product specific plicable.	IB IA
(a) (b) (c) Con 1.	principles of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mistance From a manufacturer currently approved From a new manufacturer (replacement or addition) 1. Sterile substance 2. Other substances Substance in veterinary medicinal product for use in animal species susceptible to TSE ditions: The finished product release and end of shelf life specifications reunchanged additional (to European Pharmacopoeia) specifications.	certificate of suitability for an active anufacturing process of the active Conditions: 1, 2, 4 (see below) Conditions: 1, 2, 3, 4 Conditions: 1, 2, 3, 4 Conditions: 1, 2, 3, 4 emain the same. cons for impurities and product specific plicable. retest period is included in the European test period is not provided.	IB IA

Title of variation/conditions to be fulfilled		Ty	
sub	emission of a new or updated TSE European Pharmacopoeia stance or starting material/reagent/intermediate in the material for a currently approved manufacturer and currently	nanufacturing process of the active	
(a)	Substance in veterinary medicinal product for use in animal species susceptible to TSE	Conditions: None	IF
(b)	Other substances	Conditions: None	IA
Cha	ange in:		
(a)	the re-test period of the active substance	Conditions: 1, 2, 3 (see below)	II
(b)	The storage conditions for the active substance	Conditions: 1, 2	II
Con	ditions:		
1.	Stability studies have been done according to the currently app that the agreed relevant specifications are still met.	proved protocol. The studies must show	
2.	The change should not be the result of unexpected events are stability concerns.	ising during manufacture or because of	
3.	The active substance is not a biological substance.	stability concerns.	
Ren	placement of an excinient with a comparable excinient		11
_	placement of an excipient with a comparable excipient ditions:		II
_			II
Con	ditions:	comparability, see Note for Guidance on ontained in this note for guidance for ount for veterinary medicinal products, if	11
Con	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding obioavailability and bioequivalence, Annex II; the principles of medicinal products for human use should still be taken into accordinate. For herbal medicinal products where dissolution testing	comparability, see Note for Guidance on ontained in this note for guidance for ount for veterinary medicinal products, if any may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species	11
Con 1. 2. 3.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding bioavailability and bioequivalence, Annex II; the principles of medicinal products for human use should still be taken into accorrelevant). For herbal medicinal products where dissolution testing time of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary mesusceptible to TSE, a risk assessment has been carried out by the It does not concern a medicinal product containing a biological	comparability, see Note for Guidance on ontained in this note for guidance for punt for veterinary medicinal products, if ag may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance.	. 11
Con 1. 2.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding obioavailability and bioequivalence, Annex II; the principles of medicinal products for human use should still be taken into accordinate relevant). For herbal medicinal products where dissolution testiftime of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary me susceptible to TSE, a risk assessment has been carried out by the	comparability, see Note for Guidance on ontained in this note for guidance for punt for veterinary medicinal products, if any may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance. been started with at least two pilot scale by stability data are at the disposal of the late will be provided immediately to the	111
Con 1. 2. 3. 4. 5.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding obioavailability and bioequivalence, Annex II; the principles of medicinal products for human use should still be taken into accurelevant). For herbal medicinal products where dissolution testing time of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary mesusceptible to TSE, a risk assessment has been carried out by the It does not concern a medicinal product containing a biological Stability studies in accordance with the relevant guidelines have or industrial scale batches and at least three months satisfactor applicant and assurance that these studies will be finalised. Decompetent authorities if outside specifications or potentially of the product of the pro	comparability, see Note for Guidance on ontained in this note for guidance for punt for veterinary medicinal products, if any may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance. been started with at least two pilot scale by stability data are at the disposal of the late will be provided immediately to the	
Con 1. 2. 3. 4. 5.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding obioavailability and bioequivalence, Annex II; the principles of medicinal products for human use should still be taken into accordinate of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary mesusceptible to TSE, a risk assessment has been carried out by the It does not concern a medicinal product containing a biological Stability studies in accordance with the relevant guidelines have or industrial scale batches and at least three months satisfactor applicant and assurance that these studies will be finalised. Decompetent authorities if outside specifications or potentially capproved shelf life (with proposed action).	comparability, see Note for Guidance on ontained in this note for guidance for punt for veterinary medicinal products, if any may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance. been started with at least two pilot scale by stability data are at the disposal of the late will be provided immediately to the	
Con 1. 2. 3. 4. 5.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding bioavailability and bioequivalence, Annex II; the principles of medicinal products for human use should still be taken into accurelevant). For herbal medicinal products where dissolution testing time of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary mesusceptible to TSE, a risk assessment has been carried out by the It does not concern a medicinal product containing a biological Stability studies in accordance with the relevant guidelines have or industrial scale batches and at least three months satisfactory applicant and assurance that these studies will be finalised. Decompetent authorities if outside specifications or potentially approved shelf life (with proposed action).	comparability, see Note for Guidance on ontained in this note for guidance for punt for veterinary medicinal products, if ag may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance. been started with at least two pilot scale y stability data are at the disposal of the ata will be provided immediately to the outside specifications at the end of the	IA II

		Title of variation/conditions to be fulf	filled	Туре
	Con	ditions:		
	1.	The change is not a consequence of any commitment from pre procedure for the marketing authorisation application or a type	II variation procedure).	
	2.	The change should not be the result of unexpected events arising		
	3. 4.	Any new test method does not concern a novel non-standard te		
	 4. Any new test method does not concern a novel non-standard technique or a standard technique used in a novel way. 5. The change does not concern adjuvant for vaccines or a biological excipient. 			
		,		
20.	Cha	nge in test procedure for an excipient		
	(a)	Minor change to an approved test procedure	Conditions: 1, 2, 3, 5 (see below)	IA
	(b)	Minor change to an approved test procedure for a biological excipient	Conditions: 1, 2, 3	IB
	(c)	Other changes to a test procedure, including replacement of an approved test procedure by a new test procedure	Conditions: 2, 3, 4, 5	IB
	Con	ditions:		
	1.	The method of analysis should remain the same (e.g. a change in column length or temperature, but not a different type of column or method); no new impurities are detected.		
	2.	Appropriate (re-)validation studies have been performed in accordance with relevant guidelines.		
	3.	Results of method validation show new test procedure to be at le	east equivalent to the former procedure.	
	4.	Any new test method does not concern a novel non-standard te a novel way.	echnique or a standard technique used in	
	5.	The substance is not a biological excipient.		
21.	Sub	mission of a new or updated European Pharmacopoeia cert	ificate of suitability for an excipient	
	(a)	From a manufacturer currently approved	Conditions: 1, 2, 3 (see below)	IA
	(b)	From a new manufacturer (replacement or addition)		
,		1. Sterile substance	Conditions: 1, 2, 3	IB
		2. Other substances	Conditions: 1, 2, 3	IA
	(c)	Substance in veterinary medicinal product for use in animal species susceptible to TSE	Conditions: 1, 2, 3	IB
	Conditions:			
	1.	The finished product release and end of shelf life specifications re	emain the same.	
	2.	Unchanged additional (to European Pharmacopoeia) specification particle size profiles, polymorphic form), if applicable.		
	3.	The manufacturing process of the excipient does not include the origin for which an assessment of viral safety data is required.	ne use of materials of human or animal	

	Title of variation/conditions to be fulfilled			Туре
2.	Subm	nission of a new or updated TSE European Pharmacopoient	ocia certificate of suitability for an	
	(a)	From a manufacturer currently approved or a new manufacturer (replacement or addition)	Conditions: None	IA
	(b)	Excipient in veterinary medicinal product for use in animal species susceptible to TSE	Conditions: None	IB
3.	Chan	ge in source of an excipient or reagent from a TSE risk to	a vegetable or synthetic material	
	(a)	Excipient or reagent used in manufacture of biological active substance or manufacture of a finished product containing biological active substance	Conditions: (see below)	IB
	(b)	Other cases	Conditions: (see below)	IA
	Condi	tions: ent and finished product release and end of shelf life specification	ns remain the same.	
4.	Chan	ge in synthesis or recovery of a non-pharmacopoeial excip	pent (when described in the dossier)	IB
	Conditions:			
	1. Specifications are not adversely affected; no change in qualitative and quantitative impurity profile or in			
	physico-chemical properties. 2. The excipient is not a biological substance.			
5.	Change to comply with European Pharmacopoeia or with the national pharmacopoeia of a Member State			
	(a)	Change of specification(s) of a former non-European pharmacopoeial substance to comply with European Pharmacopoeia or with the national pharmacopoeia of a Member State		
		1. Active substance	Conditions: 1, 2 (see below)	IB
		2. Excipient	Conditions: 1, 2	IB
	(b)	Change to comply with an update of the relevant monograph of the European Pharmacopoeia or national pharmacopoeia of a Member State		
		1. Active substance	Conditions: 1, 2	IA
	_	2. Excipient	Conditions: 1, 2	IA
	Condi 1. 2.	tions: The change is made exclusively to comply with the pharmacopo Unchanged specifications (additional to the pharmacopoeia) for size profiles, polymorphic form), if applicable.		

	Title of variation/conditions to be fulfilled		
Ch	Change in the specifications of the immediate packaging of the finished product		
(a)	Tightening of specification limits	Conditions: 1, 2, 3 (see below)	IA
_		Conditions: 2, 3	IB
(b)	Addition of a new test parameter	Conditions: 2, 4	IB
Co	nditions:		
1.	The change is not a consequence of any commitment from prev limits (e.g. made during the procedure for the marketing author procedure).		
2.	The change should not be the result of unexpected events arising		
3.	Any change should be within the range of currently approved lir	nits.	
4.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	
Ch	ange to a test procedure of the immediate packaging of the f	finished product	
(a)	Minor change to an approved test procedure	Conditions: 1, 2, 3 (see below)	IA
(b)	Other changes to a test procedure, including replacement or addition of a test procedure	Conditions: 2, 3, 4	IB
Co	nditions:		
1.	The method of analysis should remain the same (e.g. a change in a different type of column or method).		
2.	Appropriate (re-)validation studies were performed in accordance		
3.	Results of method validation show new test procedure to be at le	· ·	
4.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	
for	ange in any part of the (primary) packaging material not in mulation (such as colour of flip-off caps, colour code rings of ferent plastic used))	n contact with the finished product on ampoules, change of needle shield	IA
Co	aditions		
Conditions: The change does not concern a fundamental part of the packaging material, which affects the delivery, use, safety or stability of the finished product.			
29. Change in the qualitative and/or quantitative composition of		ne immediate packaging material	
(a)	Semi-solid and liquid pharmaceutical forms	Conditions: 1, 2, 3, 4 (see below)	IB
(b)	All other pharmaceutical forms	Conditions: 1, 2, 3, 4	IA



	Title of variation/conditions to be fulf	illed	Туре
Con	nditions:		
1.	The product concerned is not a biological or sterile product.		
2.	The change only concerns the same packaging type and material	(e.g. blister to blister).	
3.	The proposed packaging material must be at least equivalent to relevant properties.	the approved material in respect of its	
4.	Relevant stability studies in accordance with the relevant guidel pilot scale or industrial scale batches and at least three months applicant. Assurance is given that these studies will be finalis immediately to the competent authorities if outside specification the end of the approved shelf life (with proposed action).	stability data are at the disposal of the ed and that the data will be provided	
	ange (replacement, addition or deletion) in supplier of packa ntioned in the dossier), spacer devices for metered dose inha		
(a)	Deletion of a supplier	Conditions: 1 (see below)	IA
(b)	Replacement or addition of a supplier	Conditions: 1, 2, 3, 4	IB
Con	nditions:		
1.	No deletion of packaging component or device.		
2.	The qualitative and quantitative composition of the packaging co	omponents/device remains the same.	
3.	The specifications and quality control method are at least equival	lent.	
4.	The sterilisation method and conditions remain the same, if appl	icable.	
. Cha	Change to in-process tests or limits applied during the manufacture of the product		
(a)	Tightening of in-process limits	Conditions: 1, 2, 3 (see below)	IA
		Conditions: 2, 3	IB
(b)	Addition of new tests and limits	Conditions: 2, 4	IB
Con	Conditions:		
1.	. The change is not a consequence of any commitment from previous assessments (e.g. made during the		
2.	procedure for the marketing authorisation application or a type l The change should not be the result of unexpected events ari	* '	
3.	stability concerns. Any change should be within the range of the currently approved	d limits	
4.	Any new test method does not concern a novel non-standard tea novel way.		
. Cha	Change in batch size of the finished product		
(a)	Up to 10-fold compared to the original batch size approved at the grant of the marketing authorisation	Conditions: 1, 2, 3, 4, 5 (see below)	IA
(b)	Downscaling down to 10-fold	Conditions: 1, 2, 3, 4, 5, 6	IA

	Title of variation/conditions to be fulf	illed	Тур
Con	aditions:		
1.	The change does not affect the reproducibility and/or consistency	y of the product.	
2.	The change relates only to standard immediate release oral pharm forms.	naceutical forms and to non-sterile liquid	
3.	Any changes to the manufacturing method and/or to the in-pro by the change in batch-size, e.g. use of different sized equipment		
4.	Validation scheme is available or validation of the manufacture had to the current protocol with at least three batches at the propose relevant guidelines.		
5.	It does not concern a medicinal product containing a biological	active substance.	
6.	The change should not be a result of unexpected events arisen deconcerns.	iring manufacture or because of stability	
7.	Relevant stability studies in accordance with the relevant guidel pilot scale or industrial scale batches and at least three months applicant. Assurance is given that these studies will be finalis immediately to the competent authorities if outside specification the end of the approved shelf life (with proposed action).	stability data are at the disposal of the ed and that the data will be provided	
Mir	nor change in the manufacture of the finished product		IB
Con	nditions:		
1.	The overall manufacturing principle remains the same.		
		1.66	
2.	The new process must lead to an identical product regarding all		
3. 4.	The medicinal product does not contain a biological active subst. In case of a change in the sterilisation process, the change is to a		
5.	Relevant stability studies in accordance with the relevant guidel pilot scale or industrial scale batches and at least three months applicant. Assurance is given that these studies will be finalise	ines have been started with at least one stability data are at the disposal of the	
	immediately to the competent authorities if outside specification the end of the approved shelf life (with proposed action).		
— Cha		ns or potentially outside specifications at	
Cha (a)	the end of the approved shelf life (with proposed action).	ns or potentially outside specifications at	
	the end of the approved shelf life (with proposed action). ange in the colouring system or the flavouring system current Reduction or deletion of one or more components of	ns or potentially outside specifications at	IA
	the end of the approved shelf life (with proposed action). ange in the colouring system or the flavouring system current Reduction or deletion of one or more components of the	ntly used in the finished product Conditions: 1, 2, 3, 4, 7 (see	
	the end of the approved shelf life (with proposed action). ange in the colouring system or the flavouring system current Reduction or deletion of one or more components of the 1. Colouring system	conditions: 1, 2, 3, 4, 7 (see below)	
(a)	the end of the approved shelf life (with proposed action). ange in the colouring system or the flavouring system current Reduction or deletion of one or more components of the 1. Colouring system 2. Flavouring system	conditions: 1, 2, 3, 4, 7 (see below)	IA IA

Conditions:

- 1. No change in functional characteristics of the pharmaceutical form e.g. disintegration time, dissolution profile.
- 2. Any minor adjustment to the formulation to maintain the total weight should be made by an excipient which currently makes up a major part of the finished product formulation.
- The finished product specification has only been updated in respect of appearance/odour/taste and if relevant, deletion or addition of an identification test.

	Title of variation/conditions to be fulf	filled	Тур
4.	Stability studies (long-term and accelerated) in accordance with r at least two pilot scale or industrial batches and at least three me disposal of the applicant and assurance that these studies wimmediately to the competent authorities if outside specification the end of the approved shelf life (with proposed action). In testing should be performed.	onths satisfactory stability data are at the ill be finalised. Data shall be provided ns or potentially outside specifications at	
5.	Any new components must comply with the relevant Directive L 229, 15.8.1978, p. 63) as amended for colourants and Directive		
6.	Any new component does not include the use of materials assessment is required of viral safety data or compliance wiminimising the risk of transmitting animal spongiform encephal medicinal products.	of human or animal origin fir which ith the current Note for Guidance on	
7.	Biological veterinary medicinal products for oral use for whic important for the uptake by the target animal species are exclude		
Cha	ange in coating weight of tablets or change in weight of cap	sule shells	
(a)	Immediate release oral pharmaceutical forms	Conditions: 1, 3, 4 (see below)	IA
(u)	ininedate release oral pharmaceutear forms	Conditions. 1, 9, 1 (see below)	12.
(b)	Gastro-resistant, modified or prolonged release pharmaceutical forms	Conditions: 1, 2, 3, 4	IB
Con	ditions:		
1.	The dissolution profile of the new product determined on a comparable to the old one. For herbal medicinal products where the disintegration time of the new product is comparable to the	e dissolution testing may not be feasible,	
2.	The coating is not a critical factor for the release mechanism.		
3.	The finished product specification has only been updated in applicable.	respect of weight and dimensions, if	
4.	Stability studies in accordance with the relevant guidelines have or industrial scale batches and at least three months satisfactory applicant and assurance that these studies will be finalised. Da competent authorities if outside specifications or potentially of approved shelf life (with proposed action).	y stability data are at the disposal of the ata will be provided immediately to the	
Cha	ange in shape or dimensions of the container or closure		
(a)	Sterile pharmaceutical forms and biological medicinal products	Conditions: 1, 2, 3 (see below)	IB
(b)	Other pharmaceutical forms	Conditions: 1, 2, 3	IA
	Data		
Con 1.	ditions: No change in qualitative or quantitative composition of the cont	ainer	
2.	The change does not concern a fundamental part of the packag use, safety or stability of the finished product.		
3.	In case of a change in the head space or a change in the st accordance with the relevant guidelines have been started with at medicinal products) or industrial scale batches and at least th medicinal products) stability data are at the disposal of the applic will be finalised and that the data will be provided immediately specifications or potentially outside specifications at the end of action).	least two pilot scale (three for biological nree months (six months for biological cant. Assurance is given that these studies to the competent authorities if outside	

	Title of variation/conditions to be fulf	filled	Туј
Cha	ange in the specification of the finished product		
(-)	Tinks with a formation with a limite	Candition 1 2 2 (as halan)	
(a)	Tightening of specification limits	Conditions: 1, 2, 3 (see below)	IA
		Conditions: 2, 3	II
(b)	Addition of a new test parameter	Conditions: 2, 4, 5	II
Cor	nditions:		
1.	The change is not a consequence of any commitment from prev limits (e.g. made during the procedure for the marketing author procedure).		
2.	The change should not be the result of unexpected events arising	during manufacture.	
3.	Any change should be within the range of currently approved lir		
4.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	
5.	The test procedure does not apply to a biological active substanc product.	e or biological excipient in the medicinal	
(a)	Minor change to an approved test procedure	Conditions: 1, 2, 3, 4, 5 (see below)	I
(b)	Minor change to an approved test procedure for biological active substance or biological excipent	Conditions: 1, 2, 3, 4	II
(c)	Other changes to a test procedure, including replacement or addition of a test procedure	Conditions: 2, 3, 4, 5	II
Cor	nditions:		
1.	The method of analysis should remain the same (e.g. a change in a different type of column or method).	n column length or temperature, but not	
2.	Appropriate (re-)validation studies have been performed in according	dance with relevant guidelines.	
3.	Results of method validation show new test procedure to be at le	east equivalent to the former procedure.	
4.	Any new test method does not concern a novel non-standard te a novel way.		
5.	The test procedure does not apply to a biological active substanc product.	e or biological excipient in the medicinal	
	ange or addition of imprints, bossing or other markings (ex printing on capsules, including replacement, or addition of i		IA
Cor	aditions:		
1.	Finished product release and end of shelf life specifications have n	ot been changed (except for appearance).	
	Any new ink must comply with the relevant pharmaceutical legis		

		Title of variation/conditions to be fulfilled	Туре
		age of dimensions of tablets, capsules, suppositories or pessaries without change in qualit	ative
((a)	Gastro-resistant, modified or prolonged release pharmaceutical forms and scored tablets Conditions: 1, 2 (see below)	IB
((b)	All other tablets, capsules, suppositories and pessaries Conditions: 1, 2	IA
(Cond	itions:	
1	1.	The dissolution profile of the reformulated product is comparable to the old one. For herbal med products, where dissolution testing may not be feasible, the disintegration time of the new procompared to the old one.	
2	2.	Release and end of shelf life specifications of the product have not been changed (except for dimens	ions).
1. (Char	nge in pack size of the finished product	
((a)	Change in the number of units (e.g. tablets, ampoules, etc.) in a pack	
_		1. Change within the range of the currently approved pack sizes Conditions: 1, 2 (see below)	IA
_		2. Change outside the range of the currently approved pack sizes Conditions: 1, 2	IB
((b)	Change in the fill-weight/fill volume of non-parenteral multi-dose products Conditions: 1, 2	IB
(Cond	itions:	
	1.	New pack size should be consistent with the posology and treatment duration as approved in summary of product characteristics.	n the
-	2.	The primary packaging material remains the same.	
2. (Char	nge in:	
((a)	the shelf-life of the finished product	
_		1. As packaged for sale Conditions: 1, 2, 3 (see below	7) IB
_		2. After first opening Conditions: 1, 2	IB
_		3. After dilution or reconstitution Conditions: 1, 2	IB
((b)	the storage conditions of the finished product or the diluted/reconstituted product Conditions: 1, 2, 4	IB
(Cond	itions:	
1	1.	Stability studies have been done according to the currently approved protocol. The studies must that the agreed relevant specifications are still met.	
í	2.	The change should not be the result of unexpected events arising during manufacture or becaustability concerns.	ise of
3	3.	The shelf life does not exceed five years.	
4	4.	The product is not a biological medicinal product.	

	Title of variation/conditions to be fulf	filled	Тур
	dition, replacement or deletion of a measuring or administrated to the primary packaging (spacer devices for metered dose		
(a)	Medicinal products for human use		
_	1. Addition or replacement	Conditions: 1, 2 (see below)	IA
	2. Deletion	Conditions: 3	IB
(b)	Veterinary medicinal products	Conditions: 1, 2	IB
Cor	aditions:		
1.	The proposed measuring device must accurately deliver the requirements with the approved posology and the results of such studies s		
2.	The new device is compatible with the medicinal product.		
3.	The medicinal product can still be accurately delivered.		
	Change in specification of a measuring device or administration device for veterinary medicinal products		
(a)	Tightening of specification limits	Conditions: 1, 2, 3 (see below)	IA
		Conditions: 2, 3	IB
(b)	Addition of a new test parameter	Conditions: 2, 4	IB
Cos	aditions:		
1.	The change is not a consequence of any commitment from prev limits (e.g. made during the procedure for the marketing author procedure).		
2.	The change should not be the result of unexpected events arising	during manufacture.	
3.	Any change should be within the range of currently approved lin		
4.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	
Ch	ange in test procedure of a measuring or administration devi	ce for veterinary medicinal products	
(a)	Minor change to an approved test procedure	Conditions: 1, 2, 3 (see below)	IA
(b)	Other changes to a test procedure, including replacement of approved test procedure by new test procedure	Conditions: 2, 3, 4	IB
Coı	aditions:		
1.	The new or updated procedure is demonstrated to be at least equ	sivalent to the former test procedure.	
2.	Appropriate (re-)validation studies have been performed in according	dance with the relevant guidelines.	
3.	Results of method validation show new test procedure to be at le	east equivalent to the former procedure.	
4.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	

		Title of variation/conditions to be fulfilled	Туре
46.	Cor	ange in the summary of product characteristics of an essentially similar product following a mmission Decision for a referral for an original medicinal product in accordance with Article 30 Directive 2001/83/EC or Article 34 of Directive 2001/82/EC	IB
	Con	nditions:	
	Con	nditions: The proposed summary of product characteristics is identical for the concerned sections to that annexed to the Commission Decision on the referral procedure for the original product.	

ANNEX II

CHANGES TO A MARKETING AUTHORISATION LEADING TO AN EXTENSION APPLICATION AS REFERRED TO IN ARTICLE 2

These changes, listed below, will be regarded as an 'extension' application as referred to in Article 2.

An extension to or a modification of the existing marketing authorisation will have to be granted by the competent authorities.

The name of the medicinal product will be the same for the 'extension' as it is for the existing marketing authorisation of the medicinal product.

The Commission, in consultation with Member States, the Agency and interested parties, will draw up and publish detailed guidance on the documentation to be submitted.

Changes requiring an extension application

- 1. Changes to the active substance(s):
 - replacement of the active substance(s) by a different salt/ester complex/derivative (with the same therapeutic moiety) where the efficacy/safety characteristics are not significantly different;
 - (ii) replacement by a different isomer, a different mixture of isomers, of a mixture by an isolated isomer (e.g. racemate by a single enantiomer) where the efficacy/safety characteristics are not significantly different;
 - (iii) replacement of a biological substance or product of biotechnology with one of a slightly different molecular structure. Modification of the vector used to produce the antigen/source material, including a new master cell bank from a different source where the efficacy/safety characteristics are not significantly different;
 - (iv) a new ligand or coupling mechanism for a radiopharmaceutical;
 - (v) change to the extraction solvent or the ratio of herbal drug to herbal drug preparation where the efficacy/ safety characteristics are not significantly different.
- 2. Changes to strength, pharmaceutical form and route of administration:
 - (i) change of bioavailability;
 - (ii) change of pharmacokinetics e.g. change in rate of release;
 - (iii) change or addition of a new strength/potency;
 - (iv) change or addition of a new pharmaceutical form;
 - (v) change or addition of a new route of administration (1).
- 3. Other changes specific to veterinary medicinal products to be administered to food-producing animals:

change or addition of target species.

⁽¹⁾ For parenteral administration, it is necessary to distinguish between intra-arterial, intravenous, intramuscular, subcutaneous and other routes. For administration to poultry, respiratory, oral and ocular (nebulisation) routes used for vaccination are considered to be equivalent routes of administration.

COMMISSION REGULATION (EC) No 1085/2003

of 3 June 2003

concerning the examination of variations to the terms of a marketing authorisation for medicinal products for human use and veterinary medicinal products falling within the scope of Council Regulation (EEC) No 2309/93

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Regulation (EEC) No 2309/93 of 22 July 1993 laying down Community procedures for the authorisation and supervision of medicinal products for human and veterinary use and establishing a European Agency for the Evaluation of Medicinal Products (1), as amended by Commission Regulation (EC) No 649/98 (2) and in particular Articles 15(4) and 37(4) thereof,

Whereas:

- (1) In the light of practical experience in the application of Commission Regulation (EC) No 542/95 of 10 March 1995 concerning the examination of variations to the terms of a marketing authorisation falling within the scope of Council Regulation (EEC) No 2309/93 (³), as amended by Regulation (EC) No 1069/98 (4), it is appropriate to simplify the procedure for varying the terms of a marketing authorisation.
- (2) Due to the technical adaptation of Annex I to Directive 2001/83/EC of the European Parliament and of the Council of 6 November 2001 on the Community code related to medicinal products for human use (5), it is appropriate to introduce in this Regulation provisions on variations related to plasma master files and vaccine antigen master files.
- (3) Some of the procedures laid down in Regulation (EC) No 542/95 should therefore be adjusted but without departing from the general principles on which those procedures are based.

- (4) It is appropriate to provide for a simplified and rapid notification procedure to enable the introduction of certain minor changes, which do not affect the approved quality, safety or efficacy of the product, without prior evaluation by the European Agency for the evaluation of medicinal products (hereinafter referred to as 'the Agency'). However, for other types of minor variations evaluation of the submitted documentation by the Agency should still be required.
- (5) The various types of minor variation should be classified in order to determine the procedure to follow; it is particularly necessary to give a precise definition of the type of minor variation for which no prior evaluation is needed.
- (6) It is necessary to clarify the definition of an 'extension' to a marketing authorisation, although it should still be possible to submit a separate, full application for marketing authorisation for a medicinal product which has already been authorised but under a different name and with summary of product characteristics.
- (7) It is appropriate to allow the Agency to reduce the evaluation period in urgent cases or to extend it in the case of a major variation entailing important changes.
- (8) It is necessary to simplify the administrative procedures for minor variations regarding the updating of marketing authorisations by allowing the Commission to group these updates every six months in one single decision.

- (1) OJ L 214, 24. 8.1993, p. 1.
- (2) OJ L 88, 24.3.1998, p. 7.
- (3) OJ L 55, 11.3.1995, p. 15.
- (4) OJ L 153, 27.5.1998, p. 11.
- (5) OJ L 311, 28.11.2001, p. 67.

(9) The time-frame for the procedure to be followed where the Commission imposes urgent safety restrictions should be clarified.

- (10) Further clarification should be introduced as regards revision of the labelling, the package leaflet/insert or the summary of product characteristics; nevertheless the procedures laid down in this Regulation should not apply to changes to the labelling or to the package leaflet/insert which are not consequential to changes to the summary of product characteristics.
- (11) For the sake of clarity, it is appropriate to replace Regulation (EC) No 542/95.
- (12) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Medicinal products for Human Use and the Standing Committee on Veterinary Medicinal Products,

HAS ADOPTED THIS REGULATION:

Article 1

Subject matter

- 1. This Regulation lays down the procedure for the examination of applications for variations to the terms of a marketing authorisation granted in accordance with Regulation (EEC) No 2309/93.
- 2. This Regulation also applies for the examination of applications of variations to the terms of a plasma master file and of a vaccine antigen master file, as defined in Annex I of Directive 2001/83/EC.

Article 2

Scope

This Regulation shall not apply to:

- (a) extensions of marketing authorisations which fulfil the conditions set out in Annex II to this Regulation;
- (b) transfers of a marketing authorisation to a new holder;
- (c) changes to the maximum residue limit as defined in Article 1(1)(b) of Council Regulation (EEC) No 2377/90 (1).

The extension referred to in point (a) of the first paragraph shall be evaluated in accordance with the procedures set out in Articles 6 to 10 and Articles 28 to 32 of Regulation (EEC) No 2309/93 for medicinal products for human use and veterinary medicinal products, respectively.

Article 3

Definitions

For the purposes of this Regulation, the following definitions shall apply:

- 1. 'variation to the terms of a marketing authorisation' means an amendment to the contents of the documents referred to in Article 6(1) and (2) or Article 28(1) and (2) of Regulation (EEC) No 2309/93, such as they existed at the moment the decision on the marketing authorisation was adopted, in accordance with Article 10 or Article 32 of that Regulation or after approval of any previous variations;
- 2. a 'minor variation' of type IA or type IB means a variation listed in Annex I which fulfils the conditions set out therein:
- 3. a 'major variation' of type II means a variation that cannot be deemed to be a minor variation or an extension of the marketing authorisation;
- 4. 'urgent safety restriction' means an interim change, due to new information having a bearing on the safe use of the medicinal product, to the product information concerning particularly one or more of the following items in the summary of product characteristics: the indications, posology, contraindications, warnings, target species and withdrawal periods.

Article 4

Notification procedure for minor variations type IA

- 1. With regard to minor variations of type IA, the marketing authorisation holder (hereinafter referred to as 'the holder') shall submit to the Agency a notification accompanied by
- (a) all necessary documents including those amended as a result of the variation;
- (b) the relevant fee provided for in Council Regulation (EC) No 297/95 (2).
- 2. A notification shall only concern one type IA variation. Where several type IA variations are to be made to the terms of a single marketing authorisation, a separate notification shall be submitted in respect of each type IA variation sought; each such notification shall also contain a reference to the other notifications.
- 3. By way of derogation from paragraph 2, where a type IA variation to the marketing authorisation leads to consequential type IA variations, a single notification may cover all such consequential variations. The single notification shall contain a description of the relation between these consequential type IA variations.
- 4. Where a variation requires consequential revision of the summary of product characteristics, labelling and package leaflet/insert, this is considered as part of the variation.

⁽²⁾ OJ L 35, 15.2.1995, p. 1.

5. If the notification fulfils the requirements set out in paragraphs 1 to 4, the Agency shall, within 14 days following receipt of the notification, acknowledge the validity of this notification and shall inform the holder accordingly.

The Agency shall, where appropriate, disseminate the amended documents referred to in Article 3(1).

The Commission shall, where necessary and based on a proposal prepared by the Agency, update every six months the marketing authorisation which has been granted pursuant to Article 10 or Article 32 of Regulation (EEC) No 2309/93.

The updated marketing authorisation shall be notified by the Commission to the holder.

The Community Register of Medicinal Products provided for in Articles 12 and 34 of Regulation (EEC) No 2309/93 shall be updated as necessary.

Article 5

Notification procedure for minor variations type IB

- 1. With regard to minor variations of type IB, the holder shall submit to the Agency a notification accompanied by:
- (a) all necessary documents demonstrating that the conditions laid down in Annex I for the requested variation are met, including all documents amended as a result of the application;
- (b) the relevant fee provided for in Regulation (EC) No 297/ 95.
- 2. A notification shall only concern one type IB variation. Where several type IB variations are to be made to a single marketing authorisation, a separate notification shall be submitted in respect of each type IB variation sought; each such notification shall also contain a reference to the other notifications.
- 3. By way of derogation from paragraph 2, where a type IB variation to the marketing authorisation leads to consequential type IA or type IB variations, a single type IB notification may cover all such consequential variations. The single application shall contain a description of the relation between these consequential type I variations.
- 4. Where a variation requires consequential revision of the summary of product characteristics, labelling and package leaflet/insert, this is considered as part of the variation.

- 5. If the notification fulfils the requirements set out in paragraphs 1 to 4, the Agency shall acknowledge receipt of a valid notification and shall start the procedure set out in paragraphs 6 to 10.
- 6. If, within 30 days of the date of the acknowledgement of receipt of a valid notification the Agency has not sent the holder its opinion provided for in paragraph 8, the variation applied for shall be deemed to have been accepted.

The Agency shall inform the holder accordingly.

The Agency shall, where appropriate, disseminate the amended documents referred to in Article 3(1).

7. The Commission shall, where necessary and based on a proposal prepared by the Agency, update every six months the marketing authorisation which has been granted pursuant to Article 10 or Article 32 of Regulation (EEC) No 2309/93.

The updated marketing authorisation shall be notified by the Commission to the holder.

The Community Register of Medicinal Products provided for in Articles 12 and 34 of Regulation (EEC) No 2309/93 shall be updated as necessary.

- 8. Where the Agency is of the opinion that the notification cannot be accepted, it shall, within the period referred to in paragraph 6, inform the holder who has submitted the notification, stating the grounds on which its opinion is based.
- 9. Within 30 days of receipt of the opinion referred to in paragraph 8, the holder may amend the notification in order to take due account of the grounds set out in the opinion. In that case the provisions of paragraphs 6 and 7 shall apply to the amended notification.
- 10. If the holder does not amend the notification, the notification shall be deemed to have been rejected. The Agency shall inform the holder accordingly.

Article 6

Approval procedure for major variations type II

- 1. With regard to major variations of type II, the holder shall submit to the Agency an application accompanied by:
- (a) the relevant particulars and supporting documents referred to in Article 3(1);
- (b) the supporting data relating to the variation applied for;
- c) all documents amended as a result of the application;

- (d) an addendum to or update of existing expert reports/ overviews/summaries to take account of the variation applied for;
- (e) the relevant fee provided for in Regulation (EC) No 297/95.
- 2. An application shall only concern one type II variation. Where several type II variations are to be made to a single marketing authorisation, a separate application shall be submitted in respect of each variation sought; each such application shall also contain a reference to the other applications.
- 3. By way of derogation to paragraph 2, where a type II variation leads to consequential variations, a single application may cover all such consequential variations. The single application shall contain a description of the relation between these consequential variations.
- 4. Where a variation requires consequential revision of the summary of product characteristics, labelling and package leaflet/insert, this is considered as part of the variation.
- 5. If the application fulfils the requirements set out in paragraphs 1 to 4, the Agency shall acknowledge receipt of a valid application and shall start the procedure set out in paragraphs 6 to 11.
- 6. The competent Committee of the Agency shall give its opinion within 60 days from the start of the procedure.

This period can be reduced having regard to the urgency of the matter, particularly for safety issues.

This period can be extended to 90 days for variations concerning changes to or addition of the therapeutic indications.

This period will be extended to 90 days for variations concerning a change to or addition of a non-food-producing target species.

7. Within the periods laid down in paragraph 6, the competent Committee may send the holder a request for supplementary information within a time limit set by that Committee. The procedure shall be suspended until such time as the supplementary information has been provided. In this case the periods laid down in paragraph 6 may be extended for a further period to be determined by that Committee.

- 8. Where the competent Committee delivers an opinion, the Agency shall inform the holder and the Commission forthwith and shall send to the Commission, where appropriate, the amendments to be made to the terms of the marketing authorisation accompanied by the documents set out in Article 9(3) and 31(3) of Regulation (EEC) No 2309/93.
- 9. Article 9(1) and (2) or Article 31(1) and (2) of Regulation (EEC) No 2309/93 shall apply to the opinion adopted by the competent Committee.
- 10. The Commission shall, where necessary and based on the proposal prepared by the Agency, amend the marketing authorisation that has been granted pursuant to Article 10 or Article 32 of the Regulation (EEC) No 2309/93.

Decisions concerning variations related to safety issues shall be implemented within a time-frame as agreed between the Commission and the holder.

The amended marketing authorisation shall be notified by the Commission to the holder.

11. The Community Register of Medicinal Products provided for in Articles 12 and 34 of Regulation (EEC) No 2309/93 shall be updated as necessary.

Article 7

Human influenza vaccines

- 1. With regard to variations to the terms of the marketing authorisations for human influenza vaccines, the procedure set out in paragraphs 2 to 6 shall apply.
- 2. Within 45 days following the date of the receipt of a valid application, the Agency shall give its opinion on the quality documents referred to in Module 3 of Annex I to Directive 2001/83/EC, based on an assessment report.
- 3. Within the period laid down in paragraph 2, the Agency may request the holder to provide supplementary information.
- 4. The Agency shall address forthwith its opinion to the Commission.

The Commission shall adopt a decision updating the marketing authorisation that has been granted pursuant to Article 10 of the Regulation (EEC) No 2309/93.

This decision shall be implemented on condition that the final opinion of the Agency as provided for in paragraph 5 is favourable.

The updated marketing authorisation shall be notified by the Commission to the holder.

5. The clinical data and, where appropriate, those concerning the stability of the medicinal product shall be addressed by the holder to the Agency at the latest 12 days following the end of the time limit laid down in paragraph 2.

The Agency shall evaluate these data and shall give its final opinion within 10 days of the reception of the data referred to in the first subparagraph. The Agency shall address the final opinion to the Commission and to the marketing authorisation holder within the three following days.

6. The Community Register of Medicinal Products provided for in Article 12 of Regulation (EEC) No 2309/93 shall be updated as necessary.

Article 8

Pandemic situation with respect to human diseases

In case of a pandemic situation with respect to the human influenza virus, duly recognised by the World Health Organisation or by the Community in the framework of Decision 2119/98/EC of the European Parliament and of the Council (¹), the Commission may exceptionally and temporarily consider the variation to the terms of the market authorisation for human influenza vaccines to be accepted after an application has been received and before the end of the procedure laid down in Article 7. Nevertheless, complete clinical safety and efficacy data can be submitted during this procedure.

In case of a pandemic situation with respect to human diseases other than the human influenza virus, the first paragraph and Article 7 may be applied *mutatis mutandis*.

Article 9

Urgent safety restrictions

1. If the holder in the event of risk to public or animal health takes urgent safety restrictions, he/she shall forthwith inform the Agency thereof. If the Agency has not raised any objections within 24 hours following receipt of that information, the urgent safety restrictions shall be deemed as accepted.

The urgent safety restrictions shall be implemented within a time-frame, as agreed with the Agency.

The corresponding variation application reflecting the urgent safety restrictions shall be submitted immediately and in any case no later than 15 days after the initiation of the urgent safety restrictions to the Agency for the application of the procedures set out in Article 6.

2. Where the Commission imposes urgent safety restrictions on the holder, the holder shall be obliged to submit an application for a variation taking account of the safety restrictions imposed by the Commission.

The urgent safety restrictions shall be implemented within a time-frame, as agreed with the Agency.

For the application of the procedures set out in Article 6, the corresponding variation application reflecting the urgent safety restrictions, including appropriate documentation in support of the change, shall be submitted to the Agency immediately and in any case no later than 15 days after the initiation of the urgent safety restrictions.

The first and second subparagraphs are without prejudice to Articles 18 and 40 of Regulation (EEC) No 2309/93.

Article 10

Repeal

Regulation (EC) No 542/95 is repealed.

References made to the repealed Regulation shall be construed as references to this Regulation.

Article 11

This Regulation shall enter into force on the 20th day following its publication in the Official Journal of the European Union.

It shall apply from 1 October 2003. However, as regards the examination of applications of variations to the terms of plasma master files and of vaccine antigen master files, this Regulation shall apply from the date of entry into force of the Commission Directive amending Annex I of Directive 2001/83/EC.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 3 June 2003.

For the Commission

Erkki LIIKANEN

Member of the Commission

ANNEX I

LIST AND CONDITIONS FOR MINOR VARIATIONS (TYPES IA AND IB) TO A MARKETING AUTHORISATION AS REFERRED TO IN ARTICLES 3 TO 5

Introductory statements

The titles of the variations are numbered and subcategories depicted by letters and numbers in smaller font. The conditions necessary for a given variation to follow either a type IA or a type IB procedure are outlined for each subcategory and listed below each variation.

To cover any other changes, it is necessary to submit applications for any consequential or parallel variations, which may be linked to the change applied for, at the same time and to clearly describe the relation between these variations.

For notifications including a certificate of suitability from the European pharmacopoeia and when the variation concerns the dossier submitted for the certificate, the documentation required for this change is to be submitted to the European Directorate for the Quality of Medicines (EDQM). If the certificate is revised following evaluation of this change, any marketing authorisation concerned must be updated. In many cases this can be done through a type IA notification.

A biological medicinal product is a product, the active substance of which is a biological substance. A biological substance is a substance that is produced by or extracted from a biological source and for which a combination of physico-chemical-biological testing and the production process and its control is needed for its characterisation and the determination of its quality.

As a result, the following shall be considered as biological medicinal products: immunological medicinal products and medicinal products derived from human blood and human plasma as defined in Article 1(4) and (10) of Directive 2001/83/EC, respectively; immunological veterinary medicinal products as defined in Article 1(7) of Directive 2001/82/EC; medicinal products falling within the scope of Part A of the Annex to Regulation (EEC) No 2309/93; advanced therapy medicinal products as defined in Part IV of Annex I to Directive 2001/83/EC.

A change in the manufacturing process of a non-proteinaceous component due to a subsequent introduction of a biotechnology step can be made in accordance with the provisions of variations type I No 15 or No 21, as appropriate. This specific variation is without prejudice to other variations listed in this Annex which can be applied in this particular context. Introduction of a proteinaceous component obtained through a biotechnology process listed in Part A of the Annex to Council Regulation (EEC) No 2309/93 in a medicinal product fall within the scope of said Regulation. Community legislation applicable to specific groups of products (¹) shall be complied with.

There is no need to notify the competent authorities of an updated monograph of the European pharmacopoeia or a national pharmacopoeia of a Member State in the case that compliance with the updated monograph is implemented within six months of its publication and reference is made to the 'current edition' in the dossier of an authorised medicinal product.

For the purposes of this document, 'test procedure' has the same meaning as 'analytical procedure' and 'limits' have the same meaning as 'acceptance criteria'.

The Commission, in consultation with Member States, the Agency and interested parties, will draw up and publish detailed guidance on the documentation to be submitted.

⁽¹) Food and food ingredients compliant with Regulation (EC) No 258/97 of the European Parliament and the Council (OJ L 43, 14.2.1997, p. 1), colours for use in foodstuffs within the scope of Council Directive 94/36/EEC (OJ L 237, 10.9.1994, p. 13), food additives within the scope of Council Directive 88/388/EEC (OJ L 184, 15.7.1988, p. 61), extraction solvents within the meaning of Council Directive 88/344/EEC (OJ L 157, 24.6.1988, p. 28) as last amended by Directive 92/115/EEC (OJ L 409, 31.12.1992, p. 31) and foods or food ingredients derived from a biotechnology step which has been introduced in the manufacturing/production are not required to be notified as a variation to the terms of the marketing authorisation.

	Title of variation/conditions to be fulfilled	Ту
Cha	nge in the name and/or address of the marketing authorisation holder	L
Con	ditions:	
The	marketing authorisation holder shall remain the same legal entity.	
Cha	nge in the name of the medicinal product	I
Con	ditions: No confusion with the names of existing medicinal products or with the international non-proprietary	
2.	name (INN). The check by the EMEA on the acceptability of the new name by the Member States should be finalised	
۷.	before the variation application is submitted.	
3.	The change does not concern the addition of a name.	
Cha	nge in the name of the active substance	I
	ditions:	
The	active substance shall remain the same.	
Cha Pha	nge in the name and/or address of a manufacturer of the active substance where no European rmacopoeia certificate of suitability is available	I
Con	ditions:	
The	manufacturing site shall remain the same.	
Cha	nge in the name and/or address of a manufacturer of the finished product	I
CHa	-8	1
	ditions:	
Con		
Con	ditions:	
Con	ditions: manufacturing site shall remain the same.	
Con- The Cha (a)	ditions: manufacturing site shall remain the same. nge in ATC Code	
Con-	ditions: manufacturing site shall remain the same. nge in ATC Code Medicinal products for human use	
Con-	ditions: manufacturing site shall remain the same. nge in ATC Code Medicinal products for human use ditions:	I
Con-	ditions: manufacturing site shall remain the same. nge in ATC Code Medicinal products for human use ditions: nge following granting of or amendment to ATC Code by WHO.	I
Con- Char Char Con- Char Con- Char Con- Char Con- Char Con- Char Con- Con- Con- Con- Con- Con- Con- Con-	ditions: manufacturing site shall remain the same. nge in ATC Code Medicinal products for human use ditions: nge following granting of or amendment to ATC Code by WHO. Veterinary medicinal products	I
Con- Chai Chai Chai Chai Chai Chai Rep	ditions: manufacturing site shall remain the same. nge in ATC Code Medicinal products for human use ditions: nge following granting of or amendment to ATC Code by WHO. Veterinary medicinal products ditions:]
Con- Chai Chai Chai Chai Chai Chai Rep	ditions: manufacturing site shall remain the same. Inge in ATC Code Medicinal products for human use ditions: Inge following granting of or amendment to ATC Code by WHO. Veterinary medicinal products ditions: Inge following granting of or amendment to ATC Vet Code. lacement or addition of a manufacturing site for part or all of the manufacturing process of the	I
Con The Chan (a) Con Chan Con Chan	ditions: manufacturing site shall remain the same. Inge in ATC Code Medicinal products for human use ditions: Inge following granting of or amendment to ATC Code by WHO. Veterinary medicinal products ditions: Inge following granting of or amendment to ATC Vet Code. lacement or addition of a manufacturing site for part or all of the manufacturing process of the shed product Secondary packaging for all types of pharmaceutical Conditions: 1, 2 (see below)	I
Con- Char (a) Con- Char (b) Con- Char Repfinis (a)	ditions: manufacturing site shall remain the same. mge in ATC Code Medicinal products for human use ditions: mge following granting of or amendment to ATC Code by WHO. Veterinary medicinal products ditions: mge following granting of or amendment to ATC Vet Code. lacement or addition of a manufacturing site for part or all of the manufacturing process of the shed product Secondary packaging for all types of pharmaceutical forms Conditions: 1, 2 (see below)	I
Con- Char (a) Con- Char (b) Con- Char Repfinis (a)	ditions: manufacturing site shall remain the same. mge in ATC Code Medicinal products for human use ditions: mge following granting of or amendment to ATC Code by WHO. Veterinary medicinal products ditions: mge following granting of or amendment to ATC Vet Code. lacement or addition of a manufacturing site for part or all of the manufacturing process of the shed product Secondary packaging for all types of pharmaceutical forms Primary packaging site 1. Solid pharmaceutical forms, e.g. tablets and cap- Conditions: 1, 2, 3, 5	I
Con- Char (a) Con- Char (b) Con- Char Repfinis (a)	ditions: manufacturing site shall remain the same. Inge in ATC Code Medicinal products for human use ditions: Inge following granting of or amendment to ATC Code by WHO. Veterinary medicinal products ditions: Inge following granting of or amendment to ATC Vet Code. Iacement or addition of a manufacturing site for part or all of the manufacturing process of the shed product Secondary packaging for all types of pharmaceutical forms Primary packaging site 1. Solid pharmaceutical forms, e.g. tablets and capsules Conditions: 1, 2, 3, 5	I

	Title of variation/conditions to be fulf	illed	,
Con	ditions:		
1.	Satisfactory inspection in the last three years by an inspection set EEA or of a country where an operational good manufacturi agreement (MRA) exists between the country concerned and the	ing practice (GMP) mutual recognition	
2.	Site appropriately authorised (to manufacture the pharmaceutical	l form or product concerned).	
3.	Product concerned is not a sterile product.		
4.	Validation scheme is available or validation of the manufacture carried out according to the current protocol with at least three p		
5.	Product concerned is not a biological medicinal product.		+
Cha	inge in batch release arrangements and quality control testin	ng of the finished product	
(a)	Replacement or addition of a site where batch control/testing takes place	Conditions: 2, 3, 4 (see below)	
(b)	Replacement or addition of a manufacturer responsible for batch release		
	Not including batch control/testing	Conditions: 1, 2	
	2. Including batch control/testing	Conditions: 1, 2, 3, 4	
Con	ditions:		
1.	The manufacturer responsible for batch release must be located v	vithin the EEA.	
2.	The site is appropriately authorised.		
3.	The product is not a biological medicinal product.		
4.	Method transfer from the old to the new site or new test laborate	ory has been successfully completed.	
pro	etion of any manufacturing site (including for an active of duct, packaging site, manufacturer responsible for batch re es place)	substance, intermediate or finished elease and site where batch control	
Con	ditions:		
Non	e		
Min	or change in the manufacturing process of the active substa	nnce	
	distance.		
	ditions:	hysica_chemical properties	
1.	No change in qualitative and quantitative impurity profile or in p	mysico-chemical properties.	
2.	The active substance is not a biological substance. The synthetic route remains the same, i.e. intermediates remain t	he same. In the case of herhal medicinal	

	Title of variation/conditions to be fulf	illed	Тур
Cha	ange in batch size of active substance or intermediate		
(a)	Up to 10-fold compared to the original batch size approved at the grant of the marketing authorisation	Conditions: 1, 2, 3, 4 (see below)	IA
(b)	Downscaling	Conditions: 1, 2, 3, 4, 5	IA
(c)	More than 10-fold compared to the original batch size approved at the grant of the marketing authorisation	Conditions: 1, 2, 3, 4	IB
Con	iditions:		
1.	Any changes to the manufacturing methods are only those necessized equipment.	ssitated by scale-up, e.g. use of different-	
2.	Test results of at least two batches according to the specification batch size.	ns should be available for the proposed	
3.	The active substance is not a biological substance.		
4. 5.	The change does not affect the reproducibility of the process. The change should not be the result of unexpected events ari stability concerns.	sing during manufacture or because of	
	ange in the specification of an active substance or a starting he manufacturing process of the active substance	material/intermediate/reagent used	
(a)	Tightening of specification limits	Conditions: 1, 2, 3 (see below)	IA
		Conditions: 2, 3	IB
(b)	Addition of a new test parameter to the specification of		
	1. an active substance	Conditions: 2, 4, 5	IB
	2. a starting material/intermediate/ reagent used in the manufacturing process of the active substance	Conditions: 2, 4	IB
Con	aditions:		
1.	The change is not a consequence of any commitment from prev limits (e.g. made during the procedure for the marketing author procedure).		
2.	The change should not be the result of unexpected events arising	during manufacture.	
3.	Any change should be within the range of currently approved lin		
4.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	
5.	The active substance is not a biological substance.		
	ange in test procedure for active substance or starting mater manufacturing process of the active substance	rial, intermediate, or reagent used in	
(a)	Minor change to an approved test procedure	Conditions: 1, 2, 3, 5 (see below)	IA
(b)	Other changes to a test procedure, including replacement or addition of a test procedure	Conditions: 2, 3, 4, 5	IB

required.

	Title of variation/conditions to be full	filled	Тур
Con	ditions:		
1.	The method of analysis should remain the same (e.g. a change in a different type of column or method); no new impurities are detected in the column of the c	n column length or temperature, but not tected.	
2.	Appropriate (re-)validation studies have been performed in according to the control of the contr		
3.	Results of method validation show new test procedure to be at le	· ·	
4.	Any new test method does not concern a novel non-standard te	•	
	a novel way.	1	
5.	The active substance, starting material, intermediate or reagent is	s not a biological substance.	
mai	ange in the manufacturer of the active substance or starting nufacturing process of the active substance where no Eur ability is available		
(a)	Change in site of the already approved manufacturer (replacement or addition)	Conditions: 1, 2, 4 (see below)	IB
(b)	New manufacturer (replacement or addition)	Conditions: 1, 2, 3, 4	IB
Con	ditions:		
1.	The specifications (including in-process controls, methods of preparation (including batch size) and detailed route of synthesis		
2.	Where materials of human or animal origin are used in the pro new supplier for which assessment is required of viral safety or Guidance on Minimising the Risk of Transmitting Animal Spongifor Veterinary Medicinal Products.	of compliance with the current Note for	
3.	The current or new active substance manufacturer does not use a	a drug master file.	
4.	The change does not concern a medicinal product containing a b	piological active substance.	
sub	omission of a new or updated European Pharmacopoeia constance or starting material/reagent/intermediate in the mastance		
(a)	From a manufacturer currently approved	Conditions: 1, 2, 4 (see below)	IA
(b)	From a new manufacturer (replacement or addition)		
	1. Sterile substance	Conditions: 1, 2, 3, 4	IB
	2. Other substances	Conditions: 1, 2, 3, 4	IA
(c)	Substance in veterinary medicinal product for use in animal species susceptible to TSE	Conditions: 1, 2, 3, 4	IB
Con	ditions:		
1.	The finished product release and end of shelf life specifications re	emain the same.	
2.	Unchanged additional (to European Pharmacopoeia) specificati requirements (e.g. particle size profiles, polymorphic form), if ap		
3.	The active substance will be tested immediately prior to use if no Pharmacopoeia certificate of suitability, or if data to support a re		
4.	The manufacturing process of the active substance, starting include the use of materials of human or animal origin for wh		

	Title of variation/conditions to be ful-	filled	Ту
act	abmission of a new or updated TSE European Pharmacoptive substance or starting material/reagent/intermediate in tive substance for a currently approved manufacturer and ocess	the manufacturing process of the	
(a)	Substance in veterinary medicinal product for use in animal species susceptible to TSE	Conditions: None	II
(b)	Other substances	Conditions: None	I
Cha	ange in:		
(a)	the re-test period of the active substance	Conditions: 1, 2, 3 (see below)	II
(b)	the storage conditions for the active substance	Conditions: 1, 2	II
Con	ditions:		
1.	Stability studies have been done according to the currently app that the agreed relevant specifications are still met.	proved protocol. The studies must show	
2.	The change should not be the result of unexpected events an	ising during manufacture or because of	
3.	stability concerns. The active substance is not a biological substance.		
Rep	placement of an excipient with a comparable excipient		II
Con	ditions:		II
		comparability of Note for Guidance on contained in this note for guidance for punt for veterinary medicinal products, if	II
Con	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding Bio-availability and Bio-equivalence, Annex II; the principles medicinal products for human use should still be taken into accirelevant). For herbal medicinal products where dissolution testing	comparability of Note for Guidance on contained in this note for guidance for punt for veterinary medicinal products, if any not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species	11
Con 1. 2. 3.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding Bio-availability and Bio-equivalence, Annex II; the principles medicinal products for human use should still be taken into accerelevant). For herbal medicinal products where dissolution testing time of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary mesusceptible to TSE, a risk assessment has been carried out by the It does not concern a medicinal product containing a biological	comparability of Note for Guidance on contained in this note for guidance for punt for veterinary medicinal products, if ag may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance.	II
Con 1. 2. 3.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding Bio-availability and Bio-equivalence, Annex II; the principles medicinal products for human use should still be taken into accordivation. For herbal medicinal products where dissolution testing time of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary mesusceptible to TSE, a risk assessment has been carried out by the	comparability of Note for Guidance on contained in this note for guidance for punt for veterinary medicinal products, if any may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance. been started with at least two pilot scale by stability data are at the disposal of the late will be provided immediately to the	п
Con 1. 2. 3.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding Bio-availability and Bio-equivalence, Annex II; the principles medicinal products for human use should still be taken into accerelevant). For herbal medicinal products where dissolution testing time of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary mesusceptible to TSE, a risk assessment has been carried out by the It does not concern a medicinal product containing a biological Stability studies in accordance with the relevant guidelines have or industrial scale batches and at least three months' satisfactor applicant and assurance that these studies will be finalised. Decompetent authorities if outside specifications or potentially	comparability of Note for Guidance on contained in this note for guidance for punt for veterinary medicinal products, if any may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance. been started with at least two pilot scale by stability data are at the disposal of the late will be provided immediately to the	11
Con 1. 2. 3.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding Bio-availability and Bio-equivalence, Annex II; the principles medicinal products for human use should still be taken into according relevant). For herbal medicinal products where dissolution testing time of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary mesusceptible to TSE, a risk assessment has been carried out by the It does not concern a medicinal product containing a biological Stability studies in accordance with the relevant guidelines have or industrial scale batches and at least three months' satisfactor applicant and assurance that these studies will be finalised. Discompetent authorities if outside specifications or potentially approved shelf life (with proposed action).	comparability of Note for Guidance on contained in this note for guidance for punt for veterinary medicinal products, if any may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance. been started with at least two pilot scale by stability data are at the disposal of the late will be provided immediately to the	
Con 1. 2. 3. 4. 5.	ditions: Same functional characteristics of the excipient. The dissolution profile of the new product determined on a comparable to the old one (no significant differences regarding Bio-availability and Bio-equivalence, Annex II; the principles medicinal products for human use should still be taken into accirclevant). For herbal medicinal products where dissolution testing time of the new product is comparable to the old one. Any new excipient does not include the use of materials of human is required of viral safety data. For excipients in a veterinary mesusceptible to TSE, a risk assessment has been carried out by the It does not concern a medicinal product containing a biological Stability studies in accordance with the relevant guidelines have or industrial scale batches and at least three months' satisfactor applicant and assurance that these studies will be finalised. Discompetent authorities if outside specifications or potentially approved shelf life (with proposed action).	comparability of Note for Guidance on contained in this note for guidance for punt for veterinary medicinal products, if ag may not be feasible, the disintegration an or animal origin for which assessment dicinal product for use in animal species competent authority. active substance. been started with at least two pilot scale y stability data are at the disposal of the atta will be provided immediately to the outside specifications at the end of the	I.A.

		Title of variation/conditions to be fulf	filled	Туре
	Cone	ditions:		
	1.	The change is not a consequence of any commitment from pre procedure for the marketing authorisation application or a type	II variation procedure).	
	2.	The change should not be the result of unexpected events arising		
	3. 4.	Any change should be within the range of currently approved lir Any new test method does not concern a novel non-standard te		
	5.	a novel way. The change does not concern adjuvant for vaccines or a biologic	al excipient.	
20.	Cha	ange in test procedure for an excipient		
	(a)	Minor change to an approved test procedure	Conditions: 1, 2, 3, 5 (see below)	IA
	(b)	Minor change to an approved test procedure for a biological excipient	Conditions: 1, 2, 3	IB
	(c)	Other changes to a test procedure, including replacement of an approved test procedure by a new test procedure	Conditions: 2, 3, 4, 5	IB
	Cone	ditions:		
	1.	The method of analysis should remain the same (e.g. a change ir a different type of column or method); no new impurities are det		
	2.	Appropriate (re-)validation studies have been performed in accor	dance with relevant guidelines.	
	3.	Results of method validation show new test procedure to be at le		
			east equivalent to the former procedure.	
	4.	Any new test method does not concern a novel non-standard te a novel way.		
	5.	Any new test method does not concern a novel non-standard te a novel way. The substance is not a biological excipient.		
21.	5.	a novel way.	chnique or a standard technique used in	
21.	5.	a novel way. The substance is not a biological excipient.	chnique or a standard technique used in	IA
21.	5. Subs	a novel way. The substance is not a biological excipient. mission of a new or updated European Pharmacopoeia cert	chnique or a standard technique used in ificate of suitability for an excipient	IA
221.	5. Subs	a novel way. The substance is not a biological excipient. mission of a new or updated European Pharmacopoeia cert From a manufacturer currently approved	chnique or a standard technique used in ificate of suitability for an excipient	IA
21.	5. Subs	a novel way. The substance is not a biological excipient. mission of a new or updated European Pharmacopoeia cert From a manufacturer currently approved From a new manufacturer (replacement or addition)	chnique or a standard technique used in ificate of suitability for an excipient Conditions: 1, 2, 3 (see below)	
221.	5. Subs	a novel way. The substance is not a biological excipient. mission of a new or updated European Pharmacopoeia cert From a manufacturer currently approved From a new manufacturer (replacement or addition) 1. Sterile substance	chnique or a standard technique used in ificate of suitability for an excipient Conditions: 1, 2, 3 (see below) Conditions: 1, 2, 3	IB
?1.	5	a novel way. The substance is not a biological excipient. mission of a new or updated European Pharmacopoeia cert From a manufacturer currently approved From a new manufacturer (replacement or addition) 1. Sterile substance 2. Other substances	chnique or a standard technique used in ificate of suitability for an excipient Conditions: 1, 2, 3 (see below) Conditions: 1, 2, 3	IB IA
21.	5	a novel way. The substance is not a biological excipient. mission of a new or updated European Pharmacopoeia cert From a manufacturer currently approved From a new manufacturer (replacement or addition) 1. Sterile substance 2. Other substances Substance in veterinary medicinal product for use in animal species susceptible to TSE	chnique or a standard technique used in ificate of suitability for an excipient Conditions: 1, 2, 3 (see below) Conditions: 1, 2, 3 Conditions: 1, 2, 3	IB IA
21.	5	a novel way. The substance is not a biological excipient. mission of a new or updated European Pharmacopoeia cert From a manufacturer currently approved From a new manufacturer (replacement or addition) 1. Sterile substance 2. Other substances Substance in veterinary medicinal product for use in animal species susceptible to TSE ditions:	chnique or a standard technique used in ificate of suitability for an excipient Conditions: 1, 2, 3 (see below) Conditions: 1, 2, 3 Conditions: 1, 2, 3	IB IA

		oeia certificate of suitability for an	
		Submission of a new or updated TSE European Pharmacopoeia certificate of suitability for an excipient	
(b)	From a manufacturer currently approved or a new manufacturer (replacement or addition)	Conditions: None	I
	Excipient in veterinary medicinal product for use in animal species susceptible to TSE	Conditions: None	
Char	nge in source of an excipient or reagent from a TSE risk to	a vegetable or synthetic material	
(a)	Excipient or reagent used in manufacture of biological active substance or manufacture of a finished product containing biological active substance	Conditions: (see below)]
(b)	Other cases	Conditions: (see below)	I
	litions: ient and finished product release and end of shelf-life specification	ns remain the same.	
Change in synthesis or recovery of a non-pharmacopoeial excipient (when described in the dossier)			
Cond 1. 2.	litions: Specifications are not adversely affected; no change in qualitativ physico-chemical properties. The excipient is not a biological substance.	e and quantitative impurity profile or in	
Change to comply with European Pharmacopoeia or with the national pharmacopoeia of a Member State			
(a)	Change of specification(s) of a former non-European pharmacopoeial substance to comply with European Pharmacopoeia or with the national pharmacopoeia of a Member State		
	1. Active substance	Conditions: 1, 2 (see below)]
	2. Excipient	Conditions: 1, 2	I
(b)	Change to comply with an update of the relevant monograph of the European Pharmacopoeia or national pharmacopoeia of a Member State		
	1. Active substance	Conditions: 1, 2	I
	2. Excipient	Conditions: 1, 2	I
Cond	litions:		
1.	The change is made exclusively to comply with the pharmacopoo	eia.	

	Title of variation/conditions to be fulf	illed	Туро
Cł	Change in the specifications of the immediate packaging of the finished product		
(a)	Tightening of specification limits	Conditions: 1, 2, 3 (see below)	IA
_		Conditions: 2, 3	IB
(b)	Addition of a new test parameter	Conditions: 2, 4	IB
Co	nditions:		
1.	The change is not a consequence of any commitment from prev limits (e.g. made during the procedure for the marketing author procedure).		
2.	The change should not be the result of unexpected events arising	during manufacture.	
3.	Any change should be within the range of currently approved lir	nits.	
4.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	
Cł	ange to a test procedure of the immediate packaging of the f	finished product	
(a)	Minor change to an approved test procedure	Conditions: 1, 2, 3 (see below)	IA
(b)	Other changes to a test procedure, including replacement or addition of a test procedure	Conditions: 2, 3, 4	IB
Co	nditions:		
1.	The method of analysis should remain the same (e.g. a change in a different type of column or method).		
2.	Appropriate (re-)validation studies were performed in accordance		
3.	Results of method validation show new test procedure to be at le		
4.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	
fo	ange in any part of the (primary) packaging material not in mulation (such as colour of flip-off caps, colour code rings of ferent plastic used))	n contact with the finished product n ampoules, change of needle shield	IA
Co	nditions:		
Th	e change does not concern a fundamental part of the packaging rety or stability of the finished product.	naterial, which affects the delivery, use,	
Cł	ange in the qualitative and/or quantitative composition of th	e immediate packaging material	
(a)	Semi-solid and liquid pharmaceutical forms	Conditions: 1, 2, 3, 4 (see below)	IB
(b)	All other pharmaceutical forms	Conditions: 1, 2, 3, 4	IA

	Title of variation/conditions to b	e fulfilled	Туре
Co	onditions:		
1.	The product concerned is not a biological or sterile product.		
2.	The change only concerns the same packaging type and ma-	terial (e.g. blister to blister).	
3.	The proposed packaging material must be at least equivale relevant properties.	nt to the approved material in respect of its	
4.	Relevant stability studies in accordance with the relevant g pilot scale or industrial scale batches and at least three mo applicant. Assurance is given that these studies will be f immediately to the competent authorities if outside specific the end of the approved shelf life (with proposed action).	nths' stability data are at the disposal of the inalised and that the data will be provided	
	nange (replacement, addition or deletion) in supplier of pentioned in the dossier); spacer devices for metered dose		
(a)) Deletion of a supplier	Conditions: 1 (see below)	IA
(b)) Replacement or addition of a supplier	Conditions: 1, 2, 3, 4	IB
Co	onditions:		
1.			
2.	The qualitative and quantitative composition of the packaging	ng components/device remains the same.	
3.	The specifications and quality control method are at least ed	uivalent.	
4.			
1. Cł	Change to in-process tests or limits applied during the manufacture of the product		
(a)	Tightening of in-process limits	Conditions: 1, 2, 3 (see below)	IA
_		Conditions: 2, 3	IB
(b)) Addition of new tests and limits	Conditions: 2, 4	IB
Co	onditions:		
1.			
2.	The change should not be the result of unexpected event stability concerns.	is arising during manufacture or because of	
3.	Any change should be within the range of the currently app	roved limits.	
4.	Any new test method does not concern a novel non-standa a novel way.	rd technique or a standard technique used in	
2. Cł	nange in batch size of the finished product		
(a)	Up to 10-fold compared to the original batch si approved at the grant of the marketing authorisation		IA
(b)) Downscaling down to 10-fold	Conditions: 1, 2, 3, 4, 5, 6	IA
) Other situations	Conditions: 1, 2, 3, 4, 5, 6, 7	IB

	Title of variation/conditions to be fulf	illed	Тур
Cor	nditions:		
1.	The change does not affect the reproducibility and/or consistency	y of the product.	
2.	The change relates only to standard immediate release oral pharm forms.	naceutical forms and to non-sterile liquid	
3.	Any changes to the manufacturing method and/or to the in-pro by the change in batch size, e.g. use of different-sized equipment		
4.	Validation scheme is available or validation of the manufacture hat to the current protocol with at least three batches at the propose relevant guidelines.		
5.	It does not concern a medicinal product containing a biological	active substance.	
6.	The change should not be a result of unexpected events arisen deconcerns.	uring manufacture or because of stability	
7.	Relevant stability studies in accordance with the relevant guidel pilot scale or industrial scale batch and at least three months' applicant. Assurance is given that these studies will be finalis immediately to the competent authorities if outside specification the end of the approved shelf life (with proposed action).	stability data are at the disposal of the sed and that the data will be provided	
Miı	nor change in the manufacture of the finished product		IB
Cor	nditions:		
1.	The overall manufacturing principle remains the same.		
2.	The new process must lead to an identical product regarding all a	aspects of quality, safety and efficacy.	
3.	The medicinal product does not contain a biological active subst		
4.	In case of a change in the sterilisation process, the change is to a		
5.	Relevant stability studies in accordance with the relevant guidel pilot scale or industrial scale batch and at least three months' applicant. Assurance is given that these studies will be finalis immediately to the competent authorities if outside specification	stability data are at the disposal of the sed and that the data will be provided	
	the end of the approved shelf life (with proposed action).		
Cha	the end of the approved shelf life (with proposed action). ange in the colouring system or the flavouring system current	. , , .	
Cha (a)		. , , .	
	ange in the colouring system or the flavouring system current	. , , .	IA
	Reduction or deletion of one or more components of the	conditions: 1, 2, 3, 4, 7 (see	
	Reduction or deletion of one or more components of the 1. colouring system	Conditions: 1, 2, 3, 4, 7 (see below)	
(a)	Reduction or deletion of one or more components of the 1. colouring system 2. flavouring system Increase, addition or replacement of one or more	Conditions: 1, 2, 3, 4, 7 (see below)	IA IA IB

Conditions:

- $1. \hspace{0.5cm} \hbox{No change in functional characteristics of the pharmaceutical form e.g. disintegration time, dissolution profile.} \\$
- 2. Any minor adjustment to the formulation to maintain the total weight should be made by an excipient which currently makes up a major part of the finished product formulation.
- The finished product specification has only been updated in respect of appearance/odour/taste and if relevant, deletion or addition of an identification test.

	Title of variation/conditions to be fulf	filled	Тур
4.	Stability studies (long-term and accelerated) in accordance with rat least two pilot scale or industrial batches and at least three modisposal of the applicant and assurance that these studies wimmediately to the competent authorities if outside specification the end of the approved shelf life (with proposed action). In a testing should be performed.	onths' satisfactory stability data are at the ill be finalised. Data shall be provided ns or potentially outside specifications at	
5.	Any new components must comply with the relevant Directive L 229, 15.8.1978, p. 63) as amended for colorants and Directive		
6.	Any new component does not include the use of materials assessment is required of viral safety data or compliance w Minimising the Risk of Transmitting Animal Spongiform Er Veterinary Medicinal Products.	of human or animal origin fir which ith the current Note for Guidance on	
7.	Biological veterinary medicinal products for oral use for whic important for the uptake by the target animal species are exclude		
Cha	nge in coating weight of tablets or change in weight of cap	sule shells	
(-)	I	Conditions 1 2 4/see below	
(a)	Immediate release oral pharmaceutical forms	Conditions: 1, 3, 4 (see below)	I.A
(b)	Gastro-resistant, modified or prolonged release pharmaceutical forms	Conditions: 1, 2, 3, 4	IE
Con	ditions:		
1.	The dissolution profile of the new product, determined on a comparable to the old one. For herbal medicinal products where the disintegration time of the new product is comparable to the	e dissolution testing may not be feasible,	
2.	The coating is not a critical factor for the release mechanism.		
3.	The finished product specification has only been updated in applicable.	respect of weight and dimensions, if	
4.	Stability studies in accordance with the relevant guidelines have or industrial scale batches and at least three months' satisfactor applicant and assurance that these studies will be finalised. Da competent authorities if outside specifications or potentially of approved shelf life (with proposed action).	y stability data are at the disposal of the ata will be provided immediately to the	
Cha	nge in shape or dimensions of the container or closure		
(a)	Sterile pharmaceutical forms and biological medicinal products	Conditions: 1, 2, 3 (see below)	IF
(b)	Other pharmaceutical forms	Conditions: 1, 2, 3	IA
Carr	ditiona		
Con	ditions: No change in qualitative or quantitative composition of the cont	ainer	
2.	The change does not concern a fundamental part of the packa use, safety or stability of the finished product.		
3.	In case of a change in the head space or a change in the staccordance with the relevant guidelines have been started with at medicinal products) or industrial scale batches and at least the medicinal products) stability data are at the disposal of the applic will be finalised and that the data will be provided immediately specifications or potentially outside specifications at the end of	least two pilot scale (three for biological aree months' (six months for biological ant. Assurance is given that these studies to the competent authorities if outside	

	Title of variation/conditions to be fulf	illed	Тур
Cha	nge in the specification of the finished product		
(a)	Tightening of specification limits	Conditions: 1, 2, 3 (See below)	IA
		Conditions: 2, 3	IE
(b)	Addition of a new test parameter	Conditions: 2, 4, 5	IF
Conc	litions:		
1.	The change is not a consequence of any commitment from previlimits (e.g. made during the procedure for the marketing author procedure).		
2.	The change should not be the result of unexpected events arising	during manufacture.	
3.	Any change should be within the range of currently approved lir		
4.	Any new test method does not concern a novel non-standard te a novel way.	chnique or a standard technique used in	
5.	The test procedure does not apply to a biological active substanc product.	e or biological excipient in the medicinal	
(a)	Minor change to an approved test procedure	Conditions: 1, 2, 3, 4, 5 (see below)	IA
(b)	Minor change to an approved test procedure for biological active substance or biological excipient	Conditions: 1, 2, 3, 4	IF
(c)	Other changes to a test procedure, including replacement or addition of a test procedure	Conditions: 2, 3, 4, 5	IF
Conc	ditions:		
1.	The method of analysis should remain the same (e.g. a change in a different type of column or method).	n column length or temperature, but not	
2.	Appropriate (re-)validation studies have been performed in according	dance with relevant guidelines.	
3.	Results of method validation show new test procedure to be at le		
4.	Any new test method does not concern a novel non-standard te a novel way.		
5.	The test procedure does not apply to a biological active substanc product.	e or biological excipient in the medicinal	
	nge or addition of imprints, bossing or other markings (exrinting on capsules, including replacement, or addition of i		IA
Conc	ditions:		
	Finished product release and end of shelf-life specifications have n	not been changed (except for appearance)	
1.	Tillistica producticicase and cha of shell-life specifications have in	iot been changed (except for abbearance).	

		Title of variation/conditions to be fulfi	illed	Тур
).		nge of dimensions of tablets, capsules, suppositories or pes uantitative composition and mean mass	saries without change in qualitative	
	(a)	Gastro-resistant, modified or prolonged release pharmaceutical forms and scored tablets	Conditions: 1, 2 (see below)	IB
	(b)	All other tablets, capsules, suppositories and pessaries	Conditions: 1, 2	IA
	Conc	litions:		
	1.	The dissolution profile of the reformulated product is comparable products, where dissolution testing may not be feasible, the discompared to the old one.		
	2.	Release and end of shelf-life specifications of the product have no	ot been changed (except for dimensions).	
	Cha	nge in pack size of the finished product		
	(a)	Change in the number of units (e.g. tablets, ampoules, etc.) in a pack		
		Change within the range of the currently approved pack sizes	Conditions: 1, 2 (see below)	IA
		2. Change outside the range of the currently approved pack sizes	Conditions: 1, 2	IE
	(b)	Change in the fill weight/fill volume of non-parenteral multi-dose products	Conditions: 1, 2	IF
		litions:		
	1.	New pack size should be consistent with the posology and t summary of product characteristics.	reatment duration as approved in the	
	2.	The primary packaging material remains the same.		
	Cha	nge in:		
	(a)	the shelf life of the finished product		
		1. As packaged for sale	Conditions: 1, 2, 3 (see below)	IF
		2. After first opening	Conditions: 1, 2	IF
		3. After dilution or reconstitution	Conditions: 1, 2	IF
	(b)	the storage conditions of the finished product or the diluted/reconstituted product	Conditions: 1, 2, 4	IF
	Conc	litions:		
	1.	Stability studies have been done according to the currently apprehat the agreed relevant specifications are still met.	roved protocol. The studies must show	
	2.	The change should not be the result of unexpected events aris stability concerns.	sing during manufacture or because of	
	3.	The shelf life does not exceed five years.		

	Title of variation/conditions to b	e fulfilled	Тур
	dition, replacement or deletion of a measuring or admit of the primary packaging (spacer devices for metered		
(a)	Medicinal products for human use		
_	1. Addition or replacement	Conditions: 1, 2 (see below)	IA
	2. Deletion	Conditions: 3	IB
(b)	Veterinary medicinal products	Conditions: 1, 2	IB
Con	nditions:		
1.	The proposed measuring device must accurately deliver the	e required dose for the product concerned in	
	line with the approved posology and the results of such stud		
2.	The new device is compatible with the medicinal product.		
3.	The medicinal product can still be accurately delivered.		
	Change in specification of a measuring device or administration device for veterinary medicinal products		
(a)	Tightening of specification limits	Conditions: 1, 2, 3 (see below)	IA
		Conditions: 2, 3	IF
(b)	Addition of a new test parameter	Conditions: 2, 4	II
Con	nditions:		
1.	The change is not a consequence of any commitment from limits (e.g. made during the procedure for the marketing a procedure).		
2.	The change should not be the result of unexpected events a	rising during manufacture.	
3.	Any change should be within the range of currently approv		
4.	Any new test method does not concern a novel non-standa a novel way.	ard technique or a standard technique used in	
Cha	ange in test procedure of a measuring or administration	device for veterinary medicinal products	
(a)	Minor change to an approved test procedure	Conditions: 1, 2, 3 (see below)	IA
(b)	Other changes to a test procedure, including repla ment of approved test procedure by new test proced		IF
Con	nditions:		
1.	The new or updated procedure is demonstrated to be at least		
1.	Appropriate (re-)validation studies have been performed in	accordance with the relevant guidelines.	
2.			
	Results of method validation show new test procedure to be Any new test method does not concern a novel non-standar		

	Title of variation/conditions to be fulfilled	Туре
46.	Change in the summary of product characteristics, labelling and package leaflet/insert as a consequence of a final opinion in the context of a referral procedure in accordance with Articles 31 and 32 of Directive 2001/83/EC or Articles 35 and 36 of Directive 2001/82/EC	IB
	Conditions:	
	The variation only concerns the introduction of changes to the summary of product characteristics, labelling and package leaflet/insert in order to take account of a scientific opinion delivered in the context of a referral in accordance with Articles 31 and 32 of Directive $2001/83/EC$ or Articles 35 and 36 of Directive $2001/82/EC$.	
47.	Deletion of:	
	(a) a pharmaceutical form	IA
	(b) a strength	IA
	(c) a pack size(s)	IA
	Conditions:	
	The remaining product presentations(s) must be adequate for the dosing instructions and treatment duration as mentioned in the summary of product characteristics.	

ANNEX II

CHANGES TO A MARKETING AUTHORISATION LEADING TO AN EXTENSION APPLICATION AS REFERRED TO IN ARTICLE 2

These changes, listed below, will be regarded as an 'extension' application as referred to in Article 2.

An extension to or a modification of the existing marketing authorisation will have to be granted by the Community.

The name of the medicinal product will be the same for the 'extension' as it is for the existing marketing authorisation of the medicinal product.

The Commission, in consultation with Member States, the Agency and interested parties, will draw up and publish detailed guidance on the documentation to be submitted.

Changes requiring an extension application

- 1. Changes to the active substance(s):
 - (i) replacement of the active substance(s) by a different salt/ester complex/derivative (with the same therapeutic moiety) where the efficacy/safety characteristics are not significantly different,
 - (ii) replacement by a different isomer, a different mixture of isomers, of a mixture by an isolated isomer (e.g. racemate by a single enantiomer) where the efficacy/safety characteristics are not significantly different,
 - (iii) replacement of a biological substance or product of biotechnology with one of a slightly different molecular structure. Modification of the vector used to produce the antigen/source material, including a new master cell bank from a different source where the efficacy/safety characteristics are not significantly different,
 - (iv) a new ligand or coupling mechanism for a radio-pharmaceutical,
 - (v) change to the extraction solvent or the ratio of herbal drug to herbal drug preparation where the efficacy/ safety characteristics are not significantly different.
- 2. Changes to strength, pharmaceutical form and route of administration:
 - (i) change of bio-availability;
 - (ii) change of pharmaco-kinetics e.g. change in rate of release,
 - (iii) change or addition of a new strength/potency,
 - (iv) change or addition of a new pharmaceutical form,
 - (v) change or addition of a new route of administration (1).
- 3. Other changes specific to veterinary medicinal products to be administered to food-producing animals:

Change or addition of target species.

⁽¹⁾ For parenteral administration, it is necessary to distinguish between intraarterial, intravenous, intramuscular, subcutaneous and other routes. For administration to poultry, respiratory, oral and ocular (nebulisation) routes used for vaccination are considered to be equivalent routes of administration.

COMMISSION DIRECTIVE 2003/63/EC

of 25 June 2003

amending Directive 2001/83/EC of the European Parliament and of the Council on the Community code relating to medicinal products for human use

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Directive 2001/83/EC of the European Parliament and of the Council of 6 November 2001 on the Community code relating medicinal products for human use (¹), as last amended by Directive 2002/98/EC (²), and in particular Article 120 thereof,

Whereas:

- (1) Every medicinal product for human use that is to be placed on the European Community market must be granted a marketing authorisation delivered by a competent authority. With the view to obtaining a marketing authorisation, an application dossier containing particulars and documents relating to the results of tests and trials carried out on this medicinal product must be submitted.
- (2) The detailed scientific and technical requirements of Annex I to Directive 2001/83/EC need to be adapted to take account of scientific and technical progress and in particular of a large set of new requirements resulting from recent legislation. The presentation and content of the marketing authorisation application dossier have to be improved in order to facilitate the assessment and the better use of certain parts of the dossier which are common to several medicinal products.
- (3) Within the framework of the International Conference on Harmonisation (ICH) a consensus was reached in 2000 to provide a harmonised format and terminology for a Common Technical Document through which a homogeneous organisation and presentation of a marketing authorisation application dossier for human medicinal products could be achieved. Standardised marketing authorisation dossier requirements should therefore be introduced in order to implement the Common Technical Document without delay.

- (4) The standardised marketing authorisation dossier requirements (harmonised format) should be applicable to any type of medicinal product for human use, regardless of the procedure for the granting of the marketing authorisation. Some medicinal products present, however, such specific features that all the requirements cannot be fulfilled. To take account of these particular situations, a simplified dossier presentation should be provided for.
 - The safety of biological medicinal products relies on rigorous control of their starting materials. Requirements for the suitability of human donors and the testing of donations of starting materials for plasma-derived medicinal products are laid down by Directive 2002/98/ EC setting standards of quality and safety for the collection, testing, processing, storage and distribution of human blood and blood components and amending Directive 2001/83/EC. Article 109 of Directive 2001/ 83/EC has been amended. Plasma-derived medicinal products per se are biological medicinal products, the manufacture of which is based on the careful handling of human plasma as a starting material. To take account of the fact that the same plasma material is used in most cases for several medicinal products and, as a result, that a substantial part of the marketing authorisation dossier may be common to a great number of other dossiers for totally different plasma-derived medicinal products, it is appropriate to establish a new system aimed at simplifying procedures for both the approval of and subsequent changes to human plasma-derived medicinal products. To this end the concept of a plasma master file (PMF) should be introduced, in particular in order to allow the pooling of national expertise and through the coordination by the EMEA of a single evaluation. A PMF should serve as a stand-alone document, which is separate from the marketing authorisation dossier and through which a harmonised control of the relevant information regarding starting material used for the manufacture of plasma-derived medicinal products could be achieved. The PMF system should consist of a two-step assessment: first, an assessment of the PMF carried out at Community level, the result of which, i.e. a certificate of compliance with the Community legislation for each PMF, must be taken into account by any national competent authority, preventing them of any subsequent reassessment; second, an assessment of the finished plasma-derived medicinal product containing the modified part of the PMF (the two essential parts of the content, plasma origin and plasma quality-safety).

⁽¹⁾ OJ L 311, 28.11.2001, p. 67.

⁽²⁾ OJ L 33, 8.2.2003, p. 30.

This should remain the task of the competent authority that granted the marketing authorisation for the plasmaderived medicinal product.

- In the case of vaccines for human use, the same antigen may be common to several medicinal products (vaccines) and any change to that particular antigen, ipso facto, may impact, therefore, on several vaccines authorised by different procedures. In order to simplify the existing procedures for the assessment of such vaccines, both for the granting of a first marketing authorisation and for subsequent changes to it due to modifications to the manufacturing process and testing of individual antigens involved in combined vaccines, a new system based on the concept of a vaccine antigen master file (VAMF) should be introduced. This VAMF will allow the pooling of national expertise, and through the coordination by the EMEA, a single evaluation of the concerned vaccine antigen. The VAMF should serve as a stand-alone part of the marketing authorisation dossier and provide all relevant information of a biological and chemical nature related to one specific antigen, which constitutes one of the active substances of one or several combined vaccines.
- (7) The VAMF system should consist of a two-step assessment: first, an assessment of the VAMF carried out at Community level, the result of which, i.e. a certificate of compliance with the Community legislation for each VAMF, must be taken into account by any national competent authority, preventing them from any subsequent reassessment; second, an assessment of the finished medicinal product (combined vaccine) containing the modified antigen which is the task of the competent authority that granted the combined vaccine marketing authorisation.
- (8) Herbal medicinal products differ substantially from conventional medicinal products in so far as they are intrinsically associated with the very particular notion of herbal substances and herbal preparations. It is therefore appropriate to determine specific requirements in respect of these products with regard to the standardised marketing authorisation requirements.
- (9) The treatment of various acquired and inherited pathological dysfunctions in humans calls upon novel concept-based approaches based on the development of biotechnology techniques. The latter involve the use of advanced therapy medicinal products based on processes focused on various gene-transfer-produced bio-molecules (gene therapy medicinal products) and manipulated or processed cells (cell therapy medicinal products) as active substances.

- (10) In so far as they achieve their essential action through metabolic, physiological and immunological means to restore, correct or modify physiological functions in humans, these novel complex therapeutic products representing a new category of biological medicinal products in the sense of Articles 1 and 2 of Directive 2001/83/EC. The general principles already applicable to these products should be specified from a scientific and technical point of view and the specific requirements with regard to the standardised marketing authorisation requirements should be determined.
- (11) Directive 2001/83/EC should be amended accordingly.
- (12) The measures provided for in this Directive are in accordance with the opinion of the Standing Committee for Medicinal Products for Human Use,

HAS ADOPTED THIS DIRECTIVE:

Article 1

Directive 2001/83/EC is amended as follows:

a) in the second paragraph of Article 22 the words 'Part 4 (G)' are replaced by the following:

'Part II, point 6';

b) Annex I is replaced by the text in the Annex to this Directive.

Article 2

Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive by 31 October 2003 at the latest. They shall forthwith inform the Commission thereof.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

This Directive is applicable as from 1 July 2003.

Article 3

This Directive shall enter into force on the third day following that of its publication in the Official Journal of the European Union.

Article 4

This Directive is addressed to the Member States.

Done at Brussels, 25 June 2003.

For the Commission
Erkki LIIKANEN
Member of the Commission

ANNEX

Annex I to Directive 2001/83/EC is replaced by the following:

'ANNEX I

ANALYTICAL, PHARMACOTOXICOLOGICAL AND CLINICAL STANDARDS AND PROTOCOLS IN RESPECT OF THE TESTING OF MEDICINAL PRODUCTS

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Introduction and general principles

- (1) The particulars and documents accompanying an application for marketing authorisation pursuant to Articles 8 and 10 (1) shall be presented in accordance with the requirements set out in this Annex and shall follow the guidance published by the Commission in The rules governing medicinal products in the European Community, Volume 2 B, Notice to applicants, Medicinal products for human use, Presentation and content of the dossier, Common Technical Document (CTD).
- (2) The particulars and documents shall be presented as five modules: Module 1 provides European Community specific administrative data; Module 2 provides quality, non-clinical and clinical summaries, Module 3 provides chemical, pharmaceutical and biological information, Module 4 provides non-clinical reports and Module 5 provides clinical study reports. This presentation implements a common format for all ICH (¹) regions (European Community, United States of America, Japan). These five Modules shall be presented in strict accordance with the format, content and numbering system delineated in details in Volume 2 B of the Notice to Applicants referred to above.
- (3) The European Community-CTD-presentation is applicable for all types of marketing authorisation applications irrespective of the procedure to be applied (i.e. centralised, mutual recognition or national) and of whether they are based on a full or abridged application. It is also applicable for all types of products including new chemical entities (NCE), radio-pharmaceuticals, plasma derivatives, vaccines, herbal medicinal products, etc.
- (4) In assembling the dossier for application for marketing authorisation, applicants shall also take into account the scientific guidelines relating to the quality, safety and efficacy of medicinal products for human use as adopted by the Committee for Proprietary Medicinal Products (CPMP) and published by the European Medicine Evaluation Agency (EMEA) and the other pharmaceutical Community guidelines published by the Commission in the different volumes of The rules governing medicinal products in the European Community.
- (5) With respect to the quality part (chemical, pharmaceutical and biological) of the dossier, all monographs including general monographs and general chapters of the European Pharmacopoeia are applicable.
- (6) The manufacturing process shall comply with the requirements of Commission Directive 91/356/EEC laying down the principles and guidelines of Good Manufacturing Practice (GMP) for medicinal products for human use (2) and with the principles and guidelines on GMP, published by the Commission in The rules governing medicinal products in the European Community, Volume 4.
- (7) All information, which is relevant to the evaluation of the medicinal product concerned, shall be included in the application, whether favourable or unfavourable to the product. In particular, all relevant details shall be given of any incomplete or abandoned pharmaco-toxicological or clinical test or trial relating to the medicinal product and/or completed trials concerning therapeutic indications not covered by the application.
- (8) All clinical trials, conducted within the European Community, must comply with the requirements of Directive 2001/20/EC of the European Parliament and of the Council on the approximation of the laws, regulations and administrative provisions of the Member States relating to the implementation of good clinical practice in the conduct of clinical trials on medicinal products for human use (3). To be taken into account during the assessment of an application, clinical trials, conducted outside the European Community, which relate to medicinal products intended to be used in the European Community, shall be designed, implemented and reported on what good clinical practice and ethical principles are concerned, on the basis of principles, which are equivalent to the provisions of Directive 2001/20/EC. They shall be carried out in accordance with the ethical principles that are reflected, for example, in the Declaration of Helsinki.

⁽¹⁾ International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use.

⁽²⁾ OJ L 193, 17.7.1991, p. 30.

⁽³⁾ OJ L 121, 1.5.2001, p. 34.

- (9) Non-clinical (pharmaco-toxicological) studies shall be carried out in conformity with the provisions related to Good Laboratory Practice laid down in Council Directives 87/18/EEC on the harmonisation of regulations and administrative provisions relating to the application of the principles of good laboratory practice and the verification of their application for tests in chemical substances (¹) and 88/320/EEC on the inspection and verification of good laboratory practice (GLP) (²).
- (10) Member States shall also ensure that all tests on animals are conducted in accordance with Council Directive 86/609/EEC of 24 November 1986 on the approximation of laws, regulation and administrative provisions of the Member States regarding the protection of animals for experimental and other scientific purposes.
- (11) In order to monitor the benefit/risk assessment, any new information not in the original application and all pharmaco-vigilance information shall be submitted to the competent authority. After marketing authorisation has been granted, any change to the data in the dossier shall be submitted to the competent authorities in accordance with the requirements of Commission Regulations (EC) No 1084/2003 (³) and (EC) No 1085/2003 (⁴) of the Commission or, if relevant, in accordance with national provisions, as well as the requirements in Volume 9 of Commission publication *The rules governing medicinal products in the European Community*.

This Annex is divided in four different parts:

- Part I describes the application format, the summary of product characteristics, the labelling, the leaflet and presentation requirements for standard applications (Modules 1 to 5).
- Part II provides derogation for 'Specific applications', i.e. well-established medicinal use, essentially similar products, fixed combinations, similar biological products, exceptional circumstances and mixed applications (part bibliographic and part own studies).
- Part III deals with 'Particular application requirements' for biological medicinal products (Plasma Master File; Vaccine Antigen Master File), radio-pharmaceuticals, homeopathic medicinal products, herbal medicinal products and orphan medicinal products.
- Part IV deals with 'Advanced therapy medicinal products' and concerns specific requirements for gene
 therapy medicinal products (using human autologous or allogeneic system, or xenogeneic system) and
 cell therapy medicinal products both of human or animal origin and xenogeneic transplantation medicinal
 products.

PART I

STANDARDISED MARKETING AUTHORISATION DOSSIER REQUIREMENTS

1. MODULE 1: ADMINISTRATIVE INFORMATION

1.1. Table of contents

A comprehensive table of contents of Modules 1 to 5 of the dossier submitted for marketing authorisation application shall be presented.

1.2. **Application form**

The medicinal product, which is the subject of the application, shall be identified by name and name of the active substance(s), together with the pharmaceutical form, the route of administration, the strength and the final presentation, including packaging.

 $^{(^1) \ \} OJ\ L\ 15,\, 17.1.1987,\, p.\ 29.$

⁽²⁾ OJ L 145, 11.6.1988, p. 35.

⁽³⁾ See p. 1 of this Official Journal.

⁽⁴⁾ See p. 24 of this Official Journal.

The name and address of the applicant shall be given, together with the name and address of the manufacturers and the sites involved in the different stages of the manufacture (including the manufacturer of the finished product and the manufacturer(s) of the active substance(s)), and where relevant the name and address of the importer.

The applicant shall identify the type of application and indicate what samples, if any, are also provided.

Annexed to the administrative data shall be copies of the manufacturing authorisation as defined in Article 40, together with a list of countries in which authorisation has been granted, copies of all the summaries of product characteristics in accordance with Article 11 as approved by Member States and a list of countries in which an application has been submitted.

As outlined in the application form, the applicants shall provide, inter alia, details of the medicinal product subject of the application, the legal basis of the application, the proposed marketing authorisation holder and manufacture(s), information on orphan medicinal product status, scientific advice and paediatric development program.

1.3. Summary of product characteristics, labelling and package leaflet

1.3.1. Summary of product characteristics

The applicant shall propose a summary of the product characteristics, in accordance with Article 11.

1.3.2. Labelling and package leaflet

A proposed labelling text for immediate and outer packaging as well as for the package leaflet shall be provided. These shall be in accordance with all mandatory items listed in Title V on the labelling of medicinal products for human use (Article 63) and on package leaflet (Article 59).

1.3.3. Mock-ups and specimens

The applicant shall provide specimen and/or mock-ups of the immediate and outer packaging, labels and package leaflets for the medicinal product concerned.

1.3.4. Summaries of product characteristics already approved in the Member States

Annexed to the administrative data of the application form shall be copies of all the summaries of product characteristics in accordance with Articles 11 and 21 as approved by Member States, where applicable and a list of countries in which an application has been submitted.

1.4. Information about the experts

In accordance with Article 12 (2) experts must provide detailed reports of their observations on the documents and particulars which constitute the marketing authorisation dossier and in particular on Modules 3, 4 and 5 (chemical, pharmaceutical and biological documentation, non-clinical documentation and clinical documentation, respectively). The experts are required to address the critical points related to the quality of the medicinal product and of the investigations carried out on animals and human beings and bring out all the data relevant for evaluation.

These requirements shall be met by providing a quality overall summary, a non-clinical overview (data from studies carried out in animals) and a clinical overview that shall be located in Module 2 of the marketing authorisation application dossier. A declaration signed by the experts together with brief information on their educational background, training and occupational experience shall be presented in Module 1. The experts shall have suitable technical or professional qualifications. The professional relationship of the expert to the applicant shall be declared.

1.5. Specific requirements for different types of applications

Specific requirements for different types of applications are addressed in Part II of the present Annex.

1.6. Environmental risk assessment

Where applicable, applications for marketing authorisations shall include a risk assessment overview evaluating possible risks to the environment due to the use and/or disposal of the medicinal product and make proposals for appropriate labelling provisions. Environmental risk connected with the release of medicinal products containing or consisting of GMOs (Genetically Modified Organisms) within the meaning of Article 2 of Directive 2001/18/EC of the European Parliament and of the Council of 12 March 2001 on the deliberate release into the environment of modified organisms and repealing Council Directive 90/220/EEC (¹) shall be addressed.

Information pertaining to the environmental risk shall appear as an appendix to Module 1.

The information shall be presented in accordance with the provisions of Directive 2001/18/EC, taking into account any guidance documents published by the Commission in connection with the implementation of the said Directive.

The information shall consist of:

- an introduction:
- a copy of any written consent or consents to the deliberate release into the environment of the GMO(s) for research and development purposes according to Part B of Directive 2001/18/EC;
- the information requested in Annexes II to IV of the Directive 2001/18/EC, including detection and identification methods as well as unique code of the GMO, plus any additional information on the GMO or the product of relevance to evaluating the environmental risk;
- an environment risk assessment (ERA) report prepared on basis of the information specified in Annexes III and IV of Directive 2001/18/EC and in accordance with Annex II of Directive 2001/18/EC
- taking into account the above information and the ERA, a conclusion which proposes an appropriate risk management strategy which includes, as relevant to the GMO and product in question, a postmarket monitoring plan and the identification of any special particulars which need to appear in the Summary of Product Characteristics, labelling and package leaflet;
- appropriate measures in order to inform the public.

A dated signature of the author, information on the author's educational, training and occupational experience, and a statement of the author's relationship with the applicant, shall be included.

2. MODULE 2: SUMMARIES

This Module aims to summarise the chemical, pharmaceutical and biological data, the non-clinical data and the clinical data presented in Modules 3, 4 and 5 of the dossier for marketing authorisation, and to provide the reports/overviews described in Article 12 of this Directive.

Critical points shall be addressed and analysed. Factual summaries including tabular formats shall be provided. Those reports shall provide cross-references to tabular formats or to the information contained in the main documentation presented in Module 3 (chemical, pharmaceutical and biological documentation), Module 4 (non-clinical documentation) and Module 5 (clinical documentation).

Information contained in Module 2 shall be presented in accordance with the format, content and numbering system delineated in the Volume 2 of the Notice to Applicants. The overviews and summaries shall comply with the basic principles and requirements as laid down herewith:

2.1. Overall table of contents

Module 2 shall contain a table of contents for the scientific documentation submitted in Modules 2 to 5.

2.2. Introduction

Information on the pharmacological class, mode of action and proposed clinical use of the medicinal product for which a marketing authorisation is requested shall be supplied.

2.3. Quality overall summary

A review of the information related to the chemical, pharmaceutical and biological data shall be provided in a quality overall summary.

Key critical parameters and issues related to quality aspects shall be emphasised as well as justification in cases where the relevant guidelines are not followed. This document shall follow the scope and outline of the corresponding detailed data presented in Module 3.

2.4. Non-clinical overview

An integrated and critical assessment of the non-clinical evaluation of the medicinal product in animals/ in vitro shall be required. Discussion and justification of the testing strategy and of deviation from the relevant guidelines shall be included.

Except for biological medicinal products, an assessment of the impurities and degradation products shall be included along with their potential pharmacological and toxicological effects. The implications of any differences in the chirality, chemical form, and impurity profile between the compound used in the non-clinical studies and the product to be marketed shall be discussed.

For biological medicinal products, comparability of material used in non-clinical studies, clinical studies, and the medicinal product for marketing shall be assessed.

Any novel excipient shall be the subject of a specific safety assessment.

The characteristics of the medicinal product, as demonstrated by the non-clinical studies shall be defined and the implications of the findings for the safety of the medicinal product for the intended clinical use in human shall be discussed.

2.5. Clinical overview

The clinical overview is intended to provide a critical analysis of the clinical data included in the clinical summary and Module 5. The approach to the clinical development of the medicinal product, including critical study design, decisions related to and performance of the studies shall be provided.

A brief overview of the clinical findings, including important limitations as well as an evaluation of benefits and risks based on the conclusions of the clinical studies shall be provided. An interpretation of the way the efficacy and safety findings support the proposed dose and target indications and an evaluation of how the summary of product characteristics and other approaches will optimise the benefits and manage the risks is required.

Efficacy or safety issues encountered in development and unresolved issues shall be explained.

2.6. Non-clinical summary

The results of pharmacology, pharmaco-kinetics and toxicology studies carried out in animals/in vitro shall be provided as factual written and tabulated summaries which shall be presented in the following order:

- Introduction
- Pharmacology Written Summary
- Pharmacology Tabulated Summary
- Pharmaco-kinetics Written Summary
- Pharmaco-kinetics Tabulated Summary
- Toxicology Written Summary
- Toxicology Tabulated Summary.

2.7. Clinical Summary

A detailed, factual summary of the clinical information on the medicinal product included in Module 5 shall be provided. This shall include the results of all bio-pharmaceutics studies, of clinical pharmacology studies, and of clinical efficacy and safety studies. A synopsis of the individual studies is required.

Summarised clinical information shall be presented in the following order:

- Summary of Bio-pharmaceutics and Associated Analytical Methods
- Summary of Clinical Pharmacology Studies
- Summary of Clinical Efficacy
- Summary of Clinical Safety
- Synopses of Individual Studies
- 3. MODULE 3: CHEMICAL, PHARMACEUTICAL AND BIOLOGICAL INFORMATION FOR MEDICINAL PRODUCTS CONTAINING CHEMICAL AND/OR BIOLOGICAL ACTIVE SUBSTANCES

3.1. Format and presentation

The general outline of Module 3 is as follows:

- Table of contents
- Body of data
 - Active substance

General Information

- Nomenclature
- Structure
- General Properties

Manufacture

- Manufacturer(s)
- Description of Manufacturing Process and Process Controls
- Control of Materials

- Controls of Critical Steps and Intermediates
- Process Validation and/or Evaluation
- Manufacturing Process Development

Characterisation

- Elucidation of Structure and other Characteristics
- Impurities

Control of Active Substance

- Specification
- Analytical Procedures
- Validation of Analytical Procedures
- Batch Analyses
- Justification of Specification

Reference Standards or Materials

Container Closure System

Stability

- Stability Summary and Conclusions
- Post-approval Stability Protocol and Stability Commitment
- Stability Data
- Finished Medicinal Product

Description and Composition of the Medicinal Product

Pharmaceutical Development

- Components of the Medicinal Product
 - Active Substance
 - Excipients
- Medicinal Product
 - Formulation Development
 - Overages
 - Physicochemical and Biological Properties
- Manufacturing Process Development
- Container Closure System
- Microbiological Attributes
- Compatibility

Manufacture

- Manufacturer(s)
- Batch Formula
- Description of Manufacturing Process and Process Controls
- Controls of Critical Steps and Intermediates
- Process Validation and/or Evaluation

Control of Excipients

- Specifications
- Analytical Procedures
- Validation of Analytical Procedures
- Justification of Specifications
- Excipients of Human or Animal Origin
- Novel Excipients

Control of Finished Medicinal Product

- Specification(s)
- Analytical Procedures
- Validation of Analytical Procedures
- Batch Analyses
- Characterisation of Impurities
- Justification of Specification(s)

Reference Standards or Materials

Container Closure System

Stability

- Stability Summary and Conclusion
- Post-approval Stability Protocol and Stability Commitment
- Stability Data

Appendices

- Facilities and Equipment (Biological Medicinal Products only)
- Adventitious Agents Safety Evaluation
- Excipients
- European Community Additional Information
 - Process Validation Scheme for the Medicinal Product
 - Medical Device
 - Certificate(s) of Suitability

- Medicinal products containing or using in the manufacturing process materials of animal and/or human origin (TSE procedure)
- Literature References

3.2. Content: basic principles and requirements

- (1) The chemical, pharmaceutical and biological data that shall be provided shall include for the active substance(s) and for the finished medicinal product all of relevant information on: the development, the manufacturing process, the characterisation and properties, the quality control operations and requirements, the stability as well as a description of the composition and presentation of the finished medicinal product.
- (2) Two main sets of information shall be provided, dealing with the active substance(s) and with the finished medicinal product, respectively.
- (3) This Module shall in addition supply detailed information on the starting and raw materials used during the manufacturing operations of the active substance(s) and on the excipients incorporated in the formulation of the finished medicinal product.
- (4) All the procedures and methods used for manufacturing and controlling the active substance and the finished medicinal product shall be described in sufficient details to enable them to be repeated in control tests, carried out at the request of the competent authority. All test procedures shall correspond to the state of scientific progress at the time and shall be validated. Results of the validation studies shall be provided. In the case of test procedures included in the European Pharmacopoeia, this description shall be replaced by the appropriate detailed reference to the monograph(s) and general chapter(s).
- (5) The monographs of the European Pharmacopoeia shall be applicable to all substances, preparations and pharmaceutical forms appearing in it. In respect of other substances, each Member State may require observance of its own national pharmacopoeia.

However, where a material in the European Pharmacopoeia or in the pharmacopoeia of a Member State has been prepared by a method liable to leave impurities not controlled in the pharmacopoeia monograph, these impurities and their maximum tolerance limits must be declared and a suitable test procedure must be described. In cases where a specification contained in a monograph of the European Pharmacopoeia or in the national pharmacopoeia of a Member State might be insufficient to ensure the quality of the substance, the competent authorities may request more appropriate specifications from the marketing authorisation holder. The competent authorities shall inform the authorities responsible for the pharmacopoeia in question. The marketing authorisation holder shall provide the authorities of that pharmacopoeia with the details of the alleged insufficiency and the additional specifications applied.

In the case of analytical procedures included in the European Pharmacopoeia, this description shall be replaced in each relevant section by the appropriate detailed reference to the monograph(s) and general chapter(s).

- (6) In case where starting and raw materials, active substance(s) or excipient(s) are described neither in the European Pharmacopoeia nor in the pharmacopoeia of a Member State, compliance with the monograph of a third country pharmacopoeia can be accepted. In such cases, the applicant shall submit a copy of the monograph accompanied by the validation of the analytical procedures contained in the monograph and by a translation where appropriate.
- (7) Where the active substance and/or a raw and starting material or excipient(s) are the subject of a monograph of the European Pharmacopoeia, the applicant can apply for a certificate of suitability that, where granted by the European Directorate for the Quality of Medicines, shall be presented in the relevant section of this Module. Those certificates of suitability of the monograph of the European Pharmacopoeia are deemed to replace the relevant data of the corresponding sections described in this Module. The manufacturer shall give the assurance in writing to the applicant that the manufacturing process has not been modified since the granting of the certificate of suitability by the European Directorate for the Quality of Medicines.

- (8) For a well-defined active substance, the active substance manufacturer or the applicant may arrange for the
 - (i) detailed description of the manufacturing process,
 - (ii) quality control during manufacture, and
 - (iii) process validation

to be supplied in a separate document directly to the competent authorities by the manufacturer of the active substance as an Active Substance Master File.

In this case, the manufacturer shall, however, provide the applicant with all of the data, which may be necessary for the latter to take responsibility for the medicinal product. The manufacturer shall confirm in writing to the applicant that he shall ensure batch to batch consistency and not modify the manufacturing process or specifications without informing the applicant. Documents and particulars supporting the application for such a change shall be supplied to the competent authorities; these documents and particulars will be also supplied to the applicant when they concern the open part of the active substance master file.

- (9) Specific measures concerning the prevention of the transmission of animal spongiform encephalopathies (materials from ruminant origin): at each step of the manufacturing process, the applicant must demonstrate the compliance of the materials used with the Note for Guidance on Minimising the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Medicinal Products and its updates, published by the Commission in the Official Journal of the European Union. Demonstration of compliance with the said Note for Guidance can be done by submitting either, preferably a certificate of suitability to the relevant monograph of the European Pharmacopoeia that has been granted by the European Directorate for the Quality of Medicines or by the supply of scientific data to substantiate this compliance.
- (10) For adventitious agents, information assessing the risk with respect to potential contamination with adventitious agents, whether they are non-viral or viral, as laid down in relevant guidelines as well as in relevant general monograph and general chapter of the European Pharmacopoeia, shall be provided.
- (11) Any special apparatus and equipment, which may be used at any stage of the manufacturing process and control operations of the medicinal product, shall be described in adequate details.
- (12) Where applicable and if needed, a CE marking which is required by Community legislation on medical devices shall be provided.

Special attention shall be paid to the following selected elements.

3.2.1. Active substance(s)

- 3.2.1.1. General information and information related to the starting and raw
 - a) Information on the nomenclature of the active substance shall be provided, including recommended International Non-proprietary Name (INN), European Pharmacopoeia name if relevant, chemical name(s).

The structural formula, including relative and absolute stereo-chemistry, the molecular formula, and the relative molecular mass shall be provided. For biotechnological medicinal products if appropriate, the schematic amino acid sequence and relative molecular mass shall be provided.

A list shall be provided of physicochemical and other relevant properties of the active substance, including biological activity for biological medicinal products.

b) For the purposes of this Annex, starting materials shall mean all the materials from which the active substance is manufactured or extracted.

For biological medicinal products, starting materials shall mean any substance of biological origin such as micro-organisms, organs and tissues of either plant or animal origin, cells or fluids (including blood or plasma) of human or animal origin, and biotechnological cell constructs (cell substrates, whether they are recombinant or not, including primary cells).

A biological medicinal product is a product, the active substance of which is a biological substance. A biological substance is a substance that is produced by or extracted from a biological source and that needs for its characterisation and the determination of its quality a combination of physicochemical-biological testing, together with the production process and its control. The following shall be considered as biological medicinal products: immunological medicinal products and medicinal products derived from human blood and human plasma as defined, respectively in paragraphs (4) and (10) of Article 1; medicinal products falling within the scope of Part A of the Annex to Regulation (EEC) No 2309/93; advanced therapy medicinal products as defined in Part IV of this Annex.

Any other substances used for manufacturing or extracting the active substance(s) but from which this active substance is not directly derived, such as reagents, culture media, foetal calf serum, additives, and buffers involved in chromatography, etc. are known as raw materials.

3.2.1.2. Manufacturing process of the active substance(s)

- a) The description of the active substance manufacturing process represents the applicant's commitment for the manufacture of the active substance. To adequately describe the manufacturing process and process controls, appropriate information as laid down in guidelines published by the Agency shall be provided.
- b) All materials needed in order to manufacture the active substance(s) shall be listed, identifying where each material is used in the process. Information on the quality and control of these materials shall be provided. Information demonstrating that materials meet standards appropriate for their intended use shall be provided.

Raw materials shall be listed and their quality and controls shall also be documented.

The name, address, and responsibility of each manufacturer, including contractors, and each proposed production site or facility involved in manufacturing and testing shall be provided.

c) For biological medicinal products, the following additional requirements shall apply.

The origin and history of starting materials shall be described and documented.

Regarding the specific measures for the prevention of the Transmission of animal Spongiform Encephalopathies, the applicant must demonstrate that the active substance complies with the Note for Guidance on Minimising the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Medicinal Products and its updates, published by the Commission in the Official Journal of the European Union.

When cell banks are used, the cell characteristics shall be shown to have remained unchanged at the passage level used for the production and beyond.

Seed materials, cell banks, pools of serum or plasma and other materials of biological origin and, whenever possible, the materials from which they are derived shall be tested for adventitious agents.

If the presence of potentially pathogenic adventitious agents is inevitable, the corresponding material shall be used only when further processing ensures their elimination and/or inactivation, and this shall be validated.

Whenever possible, vaccine production shall be based on a seed lot system and on established cell banks. For bacterial and viral vaccines, the characteristics of the infectious agent shall be demonstrated on the seed. In addition, for live vaccines, the stability of the attenuation characteristics shall be demonstrated on the seed; if this proof is not sufficient, the attenuation characteristics shall also be demonstrated at the production stage.

For medicinal products derived from human blood or plasma, the origin and the criteria and procedures for collection, transportation and storage of the starting material shall be described and documented in accordance with provisions laid down in Part III of this Annex.

The manufacturing facilities and equipment shall be described.

- d) Tests and acceptance criteria carried out at every critical step, information on the quality and control of intermediates and process validation and/or evaluation studies shall be provided as appropriate.
- e) If the presence of potentially pathogenic adventitious agents is inevitable, the correspondent material shall be used only when further processing ensures their elimination and/or inactivation and this shall be validated in the section dealing with viral safety evaluation.
- f) A description and discussion of the significant changes made to the manufacturing process during development and/or manufacturing site of the active substance shall be provided.

3.2.1.3. Characterisation of the active substance(s)

Data highlighting the structure and other characteristics of the active substance(s) shall be provided.

Confirmation of the structure of the active substance(s) based on any physico-chemical and/or immuno-chemical and/or biological methods, as well as information on impurities shall be provided.

3.2.1.4. Control of active substance(s)

Detailed information on the specifications used for routine control of active substance(s), justification for the choice of these specifications, methods of analysis and their validation shall be provided.

The results of control carried out on individual batches manufactured during development shall be presented.

3.2.1.5. Reference standards or materials

Reference preparations and standards shall be identified and described in detail. Where relevant, chemical and biological reference material of the European Pharmacopoeia shall be used.

3.2.1.6. Container and closure system of the active substance

A description of the container and the closure system(s) and their specifications shall be provided.

3.2.1.7. Stability of the active substance (s)

- a) The types of studies conducted, protocols used, and the results of the studies shall be summarised
- b) Detailed results of the stability studies, including information on the analytical procedures used to generate the data and validation of these procedures shall be presented in an appropriate format
- c) The post authorisation stability protocol and stability commitment shall be provided

3.2.2. Finished medicinal product

3.2.2.1. Description and composition of the finished medicinal product

A description of the finished medicinal product and its composition shall be provided. The information shall include the description of the pharmaceutical form and composition with all the constituents of the finished medicinal product, their amount on a per-unit basis, the function of the constituents of:

- the active substance(s),
- the constituent(s) of the excipients, whatever their nature or the quantity used, including colouring matter, preservatives, adjuvants, stabilisers, thickeners, emulsifiers, flavouring and aromatic substances, etc.,

- the constituents, intended to be ingested or otherwise administered to the patient, of the outer covering of the medicinal products (hard capsules, soft capsules, rectal capsules, coated tablets, films-coated tablets, etc.),
- these particulars shall be supplemented by any relevant data concerning the type of container and, where appropriate, its manner of closure, together with details of devices with which the medicinal product will be used or administered and which will be delivered with the medicinal product.

The 'usual terminology', to be used in describing the constituents of medicinal products, shall mean, notwithstanding the application of the other provisions in Article 8 (3) (c):

- in respect of substances which appear in the European Pharmacopoeia or, failing this, in the national pharmacopoeia of one of the Member States, the main title at the head of the monograph in question, with reference to the pharmacopoeia concerned,
- in respect of other substances, the international non-proprietary name (INN) recommended by the World Health Organisation, or, failing this, the exact scientific designation; substances not having an international non-proprietary name or an exact scientific designation shall be described by a statement of how and from what they were prepared, supplemented, where appropriate, by any other relevant details.
- in respect of colouring matter, designation by the 'E' code assigned to them in Council Directive 78/25/EEC of 12 December 1977 on the approximation of the rules of the Member States concerning the colouring matters authorised for use in medicinal products (¹) and/or European Parliament and Council Directive 94/36/EC of 30 June 1994 on colours for use in foodstuffs (²).

In order to give the 'quantitative composition' of the active substance(s) of the finished medicinal products, it is necessary, depending on the pharmaceutical form concerned, to specify the mass, or the number of units of biological activity, either per dosage-unit or per unit of mass or volume, of each active substance.

Active substances present in the form of compounds or derivatives shall be designated quantitatively by their total mass, and if necessary or relevant, by the mass of active entity or entities of the molecule.

For medicinal products containing an active substance, which is the subject of an application for marketing authorisation in any Member State for the first time, the quantitative statement of an active substance, which is a salt or hydrate shall be systematically expressed in terms of the mass of the active entity or entities in the molecule. All subsequently authorised medicinal products in the Member States shall have their quantitative composition stated in the same way for the same active substance.

Units of biological activity shall be used for substances, which cannot be defined molecularly. Where an International Unit of biological activity has been defined by the World Health Organisation, this shall be used. Where no International Unit has been defined, the units of biological activity shall be expressed in such a way as to provide unambiguous information on the activity of the substances by using where applicable the European Pharmacopoeia Units.

3.2.2.2. Pharmaceutical development

This chapter shall be devoted to information on the development studies conducted to establish that the dosage form, the formulation, manufacturing process, container closure system, microbiological attributes and usage instructions are appropriate for the intended use specified in the marketing authorisation application dossier.

The studies described in this chapter are distinct from routine control tests conducted according to specifications. Critical parameters of the formulation and process attributes that can influence batch reproducibility, medicinal product performance and medicinal product quality shall be identified and described. Additional supportive data, where appropriate, shall be referenced to the relevant chapters of Module 4 (Non Clinical Study Reports) and Module 5 (Clinical Study Reports) of the marketing authorisation application dossier.

- a) The compatibility of the active substance with excipients as well as key physicochemical characteristics of the active substance that can influence the performance of the finished product or the compatibility of different active substances with each other in the case of combination products, shall be documented.
- The choice of excipients, in particular relative to their respective functions and concentration shall be documented.
- c) A description of the development of the finished product shall be provided, taking into consideration the proposed route of administration and usage.
- d) Any overages in the formulation(s) shall be warranted.
- e) As far as the physiochemical and biological properties are concerned, any parameter relevant to the performance of finished product shall be addressed and documented.
- f) The selection and optimisation of the manufacturing process as well as differences between the manufacturing process(es) used to produce pivotal clinical batches and the process used for manufacturing the proposed finished medicinal product shall be provided.
- g) The suitability of the container and closure system used for the storage, shipping and use of the finished product shall be documented. A possible interaction between medicinal product and container may need to be considered.
- h) The microbiological attributes of the dosage form in relation with non-sterile and sterile products shall be in accordance with and documented as prescribed in the European Pharmacopoeia.
- i) In order to provide appropriate and supportive information for the labelling the compatibility of the finished product with reconstitution diluent(s) or dosage devices shall be documented.

3.2.2.3. Manufacturing process of the finished medicinal product

a) The description of the manufacturing method accompanying the application for Marketing Authorisation pursuant to Article 8 (3) (d), shall be drafted in such a way as to give an adequate synopsis of the nature of the operations employed.

For this purpose it shall include at least:

- mention of the various stages of manufacture including process controls and corresponding acceptance criteria, so that an assessment can be made of whether the processes employed in producing the pharmaceutical form might have produced an adverse change in the constituents,
- in the case of continuous manufacture, full details concerning precautions taken to ensure the homogeneity of the finished product,
- experimental studies validating the manufacturing process, where a non-standard method of manufacture is used or where it is critical for the product,
- for sterile medicinal products, details of the sterilisation processes and/or aseptic procedures used.
- a detailed batch formula.

The name, address, and responsibility of each manufacturer, including contractors, and each proposed production site or facility involved in manufacturing and testing shall be provided.

b) Particulars relating to the product control tests that may be carried out at an intermediate stage of the manufacturing process, with a view to ensuring the consistency of the production process shall be included.

These tests are essential for checking the conformity of the medicinal product with the formula when, exceptionally, an applicant proposes an analytical method for testing the finished product which does not include the assay of all the active substances (or of all the excipient constituents subject to the same requirements as the active substances).

The same applies where the quality control of the finished product depends on in-process control tests, particularly if the medicinal product is essentially defined by its method of preparation.

Description, documentation, and results of the validation studies for critical steps or critical assays
used in the manufacturing process shall be provided.

3.2.2.4. Control of excipients

a) All the materials needed in order to manufacture the excipient(s) shall be listed identifying where each material is used in the process. Information on the quality and control of these materials shall be provided. Information demonstrating that materials meet standards appropriate for their intended use shall be provided.

Colouring matter shall, in all cases, satisfy the requirements of Directives 78/25/EEC and/or 94/36/EC. In addition, colouring matter shall meet purity criteria as laid down in Directive 95/45/EC, as amended.

- b) For each excipient, the specifications and their justifications shall be detailed. The analytical procedures shall be described and duly validated.
- c) Specific attention shall be paid to excipients of human or animal origin.

Regarding the specific measures for the prevention of the Transmission of animal Spongiform Encephalopathies, the applicant must demonstrate also for excipients that the medicinal product is manufactured in accordance with the Note for Guidance on Minimising the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Medicinal Products and its updates, published by the Commission in the Official Journal of the European Union.

Demonstration of compliance with the aforementioned Note for Guidance can be done by submitting either preferably a certificate of suitability to the relevant monograph on Transmissible Spongiform Encephalopathies of the European Pharmacopoeia, or by the supply of scientific data to substantiate this compliance.

d) Novel excipients:

For excipient(s) used for the first time in a medicinal product or by a new route of administration, full details of manufacture, characterisation, and controls, with cross references to supporting safety data, both non-clinical and clinical, shall be provided according to the active substance format previously described.

A document containing the detailed chemical, pharmaceutical and biological information shall be presented. This information shall be formatted in the same order as the chapter devoted to Active Substance(s) of Module 3.

Information on novel excipient(s) may be presented as a stand-alone document following the format described in the former paragraphs. Where the applicant differs from the novel excipient manufacturer the said stand-alone document shall be made available to the applicant for submission to the competent authority.

Additional information on toxicity studies with the novel excipient shall be provided in Module 4 of the dossier.

Clinical studies shall be provided in Module 5.

3.2.2.5. Control of the finished medicinal product

For the control of the finished medicinal product, a batch of a medicinal product is an entity which comprises all the units of a pharmaceutical form which are made from the same initial quantity of material and have undergone the same series of manufacturing and/or sterilisation operations or, in the case of a continuous production process, all the units manufactured in a given period of time.

Unless there is appropriate justification, the maximum acceptable deviation in the active substance content of the finished product shall not exceed \pm 5 % at the time of manufacture.

Detailed information on the specifications, (release and shelf life) justification for their choice, methods of analysis and their validation shall be provided.

3.2.2.6. Reference standards or materials

Reference preparations and standards used for testing of the finished medicinal product shall be identified and described in detail, if not previously provided in the section related to the active substance.

3.2.2.7. Container and closure of the finished medicinal product

A description of the container and the closure system(s) including the identity of each immediate packaging material and their specifications shall be provided. The specifications shall include description and identification. Non-pharmacopoeial methods (with validation) shall be included where appropriate.

For non-functional outer packaging materials only a brief description shall be provided. For functional outer packaging materials additional information shall be provided.

3.2.2.8. Stability of the finished medicinal product

- a) The types of studies conducted, protocols used, and the results of the studies shall be summarised;
- b) Detailed results of the stability studies, including information on the analytical procedures used to generate the data and validation of these procedures shall be presented in an appropriate format; in case of vaccines, information on cumulative stability shall be provided where appropriate;
- c) The post authorisation stability protocol and stability commitment shall be provided.

4. MODULE 4: NON-CLINICAL REPORTS

4.1. Format and Presentation

The general outline of Module 4 is as follows:

- Table of contents
- Study reports
 - Pharmacology
 - Primary Pharmaco-dynamics
 - Secondary Pharmaco-dynamics
 - Safety Pharmacology
 - Pharmaco-dynamic Interactions
 - Pharmaco-kinetics
 - Analytical Methods and Validation Reports
 - Absorption
 - Distribution
 - Metabolism
 - Excretion
 - Pharmaco-kinetic Interactions (non-clinical)
 - Other Pharmaco-kinetic Studies

- Toxicology
 - Single-Dose Toxicity
 - Repeat-Dose Toxicity
 - Genotoxicity
 - In vitro
 - In vivo (including supportive toxico-kinetics evaluations)
 - Carcinogenicity
 - Long-term studies
 - Short- or medium-term studies
 - Other studies
 - Reproductive and Developmental Toxicity
 - Fertility and early embryonic development
 - Embryo-fetal development
 - Prenatal and postnatal development
 - Studies in which the offspring (juvenile animals) are dosed and/or further evaluated
 - Local Tolerance
- Other Toxicity Studies
 - Antigenicity
 - Immuno-toxicity
 - Mechanistic studies
 - Dependence
 - Metabolites
 - Impurities
 - Other
- Literature references

4.2. Content: basic principles and requirements

Special attention shall be paid to the following selected elements.

- (1) The pharmacological and toxicological tests must show:
 - a) the potential toxicity of the product and any dangerous or undesirable toxic effects that may occur under the proposed conditions of use in human beings; these should be evaluated in relation to the pathological condition concerned;
 - b) the pharmacological properties of the product, in both qualitative and quantitative relationship to the proposed use in human beings. All results must be reliable and of general applicability. Whenever appropriate, mathematical and statistical procedures shall be used in designing the experimental methods and in evaluating the results.

Additionally, it is necessary for clinicians to be given information about the therapeutic and toxicological potential of the product.

(2) For biological medicinal products such as immunological medicinal products and medicinal products derived from human blood or plasma, the requirements of this Module may have to be adapted for individual products; therefore the testing program carried out shall be justified by the applicant.

In establishing the testing program, the following shall be taken into consideration:

all tests requiring repeated administration of the product shall be designed to take account of the possible induction of, and interference by, antibodies;

examination of reproductive function, of embryo/foetal and peri-natal toxicity, of mutagenic potential and of carcinogenic potential shall be considered. Where constituents other than the active substance(s) are incriminated, validation of their removal may replace the study.

- (3) The toxicology and pharmaco-kinetics of an excipient used for the first time in the pharmaceutical field shall be investigated.
- (4) Where there is a possibility of significant degradation during storage of the medicinal product, the toxicology of degradation products must be considered.

4.2.1. Pharmacology

Pharmacology study shall follow two distinct lines of approach.

- Firstly, the actions relating to the proposed therapeutic use shall be adequately investigated and described. Where possible, recognised and validated assays, both in vivo and in vitro, shall be used. Novel experimental techniques must be described in such detail as to allow them to be reproduced. The results shall be expressed in quantitative terms using, for example, dose-effect curves, time-effect curves, etc. Wherever possible, comparisons shall be made with data relating to a substance or substances with a similar therapeutic action.
- Secondly, the applicant shall investigate the potential undesirable pharmaco-dynamic effects of the substance on physiological functions. These investigations shall be performed at exposures in the anticipated therapeutic range and above. The experimental techniques, unless they are standard procedures, must be described in such detail as to allow them to be reproduced, and the investigator must establish their validity. Any suspected modification of responses resulting from repeated administration of the substance shall be investigated.

For the pharmaco-dynamic medicinal product interaction, tests on combinations of active substances may be prompted either by pharmacological premises or by indications of therapeutic effect. In the first case, the pharmaco-dynamic study shall demonstrate those interactions, which might make the combination of value in therapeutic use. In the second case, where scientific justification for the combination is sought through therapeutic experimentation, the investigation shall determine whether the effects expected from the combination can be demonstrated in animals, and the importance of any collateral effects shall at least be investigated.

4.2.2. Pharmaco-kinetics

Pharmaco-kinetics means the study of the fate of the active substance, and its metabolites, within the organism, and covers the study of the absorption, distribution, metabolism (bio-transformation) and excretion of these substances.

The study of these different phases may be carried mainly by means of physical, chemical or possibly by biological methods, and by observation of the actual pharmaco-dynamic activity of the substance itself.

Information on distribution and elimination shall be necessary in all cases where such data are indispensable to determine the dosage for humans, and in respect of chemo-therapeutic substances (antibiotics, etc.) and substances whose use depends on their non-pharmaco-dynamic effects (e.g. numerous diagnostic agents, etc.).

In vitro studies also can be carried out with the advantage of using human material for comparison with animal material (i.e. protein binding, metabolism, drug-drug interaction).

Pharmaco-kinetic investigation of all pharmacologically active substances is necessary. In the case of new combinations of known substances, which have been investigated in accordance with the provisions of this Directive, pharmaco-kinetic studies may not be required, if the toxicity tests and therapeutic experimentation justify their omission.

The pharmaco-kinetic program shall be design to allow comparison and extrapolation between animal and human.

4.2.3. Toxicology

a) Single-dose toxicity

A single-dose toxicity test shall mean a qualitative and quantitative study of the toxic reactions, which may result from a single administration of the active substance or substances contained in the medicinal product, in the proportions and physico-chemical state in which they are present in the actual product.

The single-dose toxicity test must be carried out in accordance with the relevant guidelines published by the Agency.

b) Repeat-dose toxicity

Repeated dose toxicity tests are intended to reveal any physiological and/or anatomo-pathological changes induced by repeated administration of the active substance or combination of active substances under examination, and to determine how these changes are related to dosage.

Generally, it is desirable that two tests be performed: one short term, lasting two to four weeks, the other long-term. The duration of the latter shall depend on the conditions of clinical use. Its purpose is to describe potential adverse effects to which attention should be paid in clinical studies. The duration is defined in the relevant guidelines published by the Agency.

c) Geno-toxicity

The purposes of the study of mutagenic and clastogenic potential is to reveal the changes which a substance may cause in the genetic material of individuals or cells. Mutagenic substances may present a hazard to health since exposure to a mutagen carries the risk of inducing germ-line mutation, with the possibility of inherited disorders, and the risk of somatic mutations including those leading to cancer. These studies are obligatory for any new substance.

d) Carcino-genicity

Tests to reveal carcinogenic effects shall normally be required:

- 1. These studies shall be performed for any medicinal product whose expected clinical use is for a prolonged period of a patient's life, either continuously or repeatedly in an intermittent manner.
- 2. These studies are recommended for some medicinal products if there is concern about their carcinogenic potential, e.g. from product of the same class or similar structure, or from evidence in repeated dose toxicity studies.
- 3. Studies with unequivocally geno-toxic compounds are not needed, as they are presumed to be trans-species carcinogens, implying a hazard to humans. If such a medicinal product is intended to be administered chronically to humans a chronic study may be necessary to detect early tumorigenic effects.

e) Reproductive and developmental toxicity

Investigation of possible impairment of male or female reproductive function as well as harmful effects on progeny shall be performed by appropriate tests.

These tests comprise studies of effect on adult male or female reproductive function, studies of the toxic and teratogenic effects at all stages of development from conception to sexual maturity as well as latent effects, when the medicinal product under investigation has been administered to the female during pregnancy.

Omission of these tests must be adequately justified.

Depending on the indicated use of the medicinal product, additional studies addressing development when administering the medicinal product of the offspring may be warranted.

Embryo/foetal toxicity studies shall normally be conducted on two mammalian species, one of which shall be other than a rodent. Peri- and postnatal studies shall be conducted in at least one species. If the metabolism of a medicinal product in particular species is known to be similar to that in man, it is desirable to include this species. It is also desirable that one of the species is the same as in the repeated dose toxicity studies.

The state of scientific knowledge at the time when the application is lodged shall be taken into account when determining the study design.

f) Local tolerance

The purpose of local tolerance studies is to ascertain whether medicinal products (both active substances and excipients) are tolerated at sites in the body, which may come into contact with the medicinal product as a result of its administration in clinical use. The testing strategy shall be such that any mechanical effects of administration or purely physico-chemical actions of the product can be distinguished from toxicological or pharmaco-dynamic ones.

Local tolerance testing shall be conducted with the preparation being developed for human use, using the vehicle and/or excipients in treating the control group(s). Positive controls/reference substances shall be included where necessary.

The design of local tolerance tests (choice of species, duration, frequency and route of administration, doses) will depend upon the problem to be investigated and the proposed conditions of administration in clinical use. Reversibility of local lesions shall be performed where relevant.

Studies in animals can be substituted by validated in vitro tests provided that the test results are of comparable quality and usefulness for the purpose of safety evaluation.

For chemicals applied to the skin (e.g. dermal, rectal, vaginal) the sensitising potential shall be evaluated in at least one of the test systems currently available (the guinea pig assay or the local lymph node assay).

5. MODULE 5: CLINICAL STUDY REPORTS

5.1. Format and Presentation

The general outline of Module 5 is as follows:

- Table of contents for clinical study reports
- Tabular listing of all clinical studies
- Clinical study reports
 - Reports of Bio-pharmaceutical Studies
 - Bio-availability Study Reports
 - Comparative Bio-availability and Bio-equivalence Study Reports
 - In vitro In vivo Correlation Study Report
 - Reports of Bio-analytical and Analytical Methods

- Reports of Studies Pertinent to Pharmaco-kinetics Using Human Bio-materials
 - Plasma Protein Binding Study Reports
 - Reports of Hepatic Metabolism and Interaction Studies
 - Reports of Studies Using Other Human Bio-materials
- Reports of Human Pharmaco-kinetic Studies
 - Healthy subjects Pharmaco-kinetics and Initial Tolerability Study Reports
 - Patient Pharmaco-kinetics and Initial Tolerability Study Reports
 - Intrinsic Factor Pharmaco-kinetics Study Reports
 - Extrinsic Factor Pharmaco-kinetics Study Reports
 - Population Pharmaco-kinetics Study Reports
- Reports of Human Pharmaco-dynamic Studies
 - Healthy Subject Pharmaco-dynamic and Pharmaco-kinetics/Pharmaco-dynamic Study Reports
 - Patient Pharmaco-dynamic and Pharmaco-kinetics/Pharmaco-dynamic Studies Study Reports
- Reports of Efficacy and Safety Studies
 - Study Reports of Controlled Clinical Studies Pertinent to the Claimed Indication
 - Study Reports of Uncontrolled Clinical Studies
 - Reports of Analyses of Data from More than One Study including any formal integrated analyses, meta-analyses and bridging analyses
 - Other Study Reports
- Reports of Post-marketing Experience
- Literature references

5.2. Content: basic principles and requirements

Special attention shall be paid to the following selected elements.

- a) The clinical particulars to be provided pursuant to Articles 8 (3) (i) and 10 (1) must enable a sufficiently well-founded and scientifically valid opinion to be formed as to whether the medicinal product satisfies the criteria governing the granting of a marketing authorisation. Consequently, an essential requirement is that the results of all clinical trials should be communicated, both favourable and unfavourable.
- b) Clinical trials must always be preceded by adequate pharmacological and toxicological tests, carried out on animals in accordance with the requirements of Module 4 of this Annex. The investigator must acquaint himself with the conclusions drawn from the pharmacological and toxicological studies and hence the applicant must provide him at least with the investigator's brochure, consisting of all the relevant information known prior to the onset of a clinical trial including chemical, pharmaceutical and biological data, toxicological, pharmaco-kinetic and pharmaco-dynamic data in animals and the results of earlier clinical trials, with adequate data to justify the nature, scale and duration of the proposed trial; the complete pharmacological and toxicological reports shall be provided on request. For materials of human or animal origin, all available means shall be employed to ensure safety from transmission of infectious agents prior to the commencement of the trial.

- c) Marketing authorisation holders must arrange for essential clinical trial documents (including case report forms) other than subject's medical files, to be kept by the owners of the data:
 - for at least 15 years after completion or discontinuation of the trial,
 - or for at least two years after the granting of the last marketing authorisation in the European Community and when there are no pending or contemplated marketing applications in the European Community,
 - or for at least two years after formal discontinuation of clinical development of the investigational product.

Subject's medical files should be retained in accordance with applicable legislation and in accordance with the maximum period of time permitted by the hospital, institution or private practice.

The documents can be retained for a longer period, however, if required by the applicable regulatory requirements or by agreement with the sponsor. It is the responsibility of the sponsor to inform the hospital, institution or practice as to when these documents no longer need to be retained.

The sponsor or other owner of the data shall retain all other documentation pertaining to the trial as long as the product is authorised. This documentation shall include: the protocol including the rationale, objectives and statistical design and methodology of the trial, with conditions under which it is performed and managed, and details of the investigational product, the reference medicinal product and/or the placebo used; standard operating procedures; all written opinions on the protocol and procedures; the investigator's brochure; case report forms on each trial subject; final report; audit certificate(s), if available. The final report shall be retained by the sponsor or subsequent owner, for five years after the medicinal product is no longer authorised.

In addition for trials conducted within the European Community, the marketing authorisation holder shall make any additional arrangements for archiving of documentation in accordance with the provisions of Directive 2001/20/EC and implementing detailed guidelines.

Any change of ownership of the data shall be documented.

All data and documents shall be made available if requested by relevant authorities.

- d) The particulars of each clinical trial must contain sufficient detail to allow an objective judgement to be made:
 - the protocol, including the rationale, objectives and statistical design and methodology of the trial, with conditions under which it is performed and managed, and details of the investigational medicinal product used
 - audit certificate(s), if available
 - the list of investigator(s), and each investigator shall give his name, address, appointments, qualifications and clinical duties, state where the trial was carried out and assemble the information in respect of each patient individually, including case report forms on each trial subject
 - final report signed by the investigator and for multi-centre trials, by all the investigators or the co-ordinating (principal) investigator.
- e) The particulars of clinical trials referred to above shall be forwarded to the competent authorities. However, in agreement with the competent authorities, the applicant may omit part of this information. Complete documentation shall be provided forthwith upon request.

The investigator shall, in his conclusions on the experimental evidence, express an opinion on the safety of the product under normal conditions of use, its tolerance, its efficacy and any useful information relating to indications and contra-indications, dosage and average duration of treatment as well as any special precautions to be taken during treatment and the clinical symptoms of over dosage. In reporting the results of a multi-centre study, the principal investigator shall, in his conclusions, express an opinion on the safety and efficacy of the investigational medicinal product on behalf of all centres.

- f) The clinical observations shall be summarised for each trial indicating:
 - 1) the number and sex of subjects treated;
 - the selection and age-distribution of the groups of patients being investigated and the comparative tests;
 - the number of patients withdrawn prematurely from the trials and the reasons for such withdrawal:
 - 4) where controlled trials were carried out under the above conditions, whether the control group:
 - received no treatment
 - received a placebo
 - received another medicinal product of known effect
 - received treatment other than therapy using medicinal products
 - 5) the frequency of observed adverse reactions;
 - details concerning patients who may be at increased risk, e.g. elderly people, children, women during pregnancy or menstruation, or whose physiological or pathological condition requires special consideration;
 - 7) parameters or evaluation criteria of efficacy and the results in terms of these parameters;
 - 8) a statistical evaluation of the results when this is called for by the design of the trials and the variable factors involved.
- g) In addition, the investigator shall always indicate his observations on:
 - any signs of habituation, addiction or difficulty in weaning patients from the medicinal product;
 - any interactions that have been observed with other medicinal products administered concomitantly;
 - 3) the criteria determining exclusion of certain patients from the trials;
 - 4) any deaths which occurred during the trial or within the follow-up period.
- h) Particulars concerning a new combination of medicinal substances must be identical to those required for new medicinal products and must substantiate the safety and efficacy of the combination.
- Total or partial omission of data must be explained. Should unexpected results occur during the course of the trials, further pre clinical toxicological and pharmacological tests must be undertaken and reviewed.
- j) If the medicinal product is intended for long-term administration, particulars shall be given of any modification of the pharmacological action following repeated administration, as well as the establishment of long-term dosage.

5.2.1. Reports of bio-pharmaceutics studies

Bio-availability study reports, comparative bio-availability, bio-equivalence study reports, reports on in vitro and in vivo correlation study, and bio-analytical and analytical methods shall be provided.

In addition, an assessment of bio-availability shall be undertaken where necessary to demonstrate bio-equivalence for the medicinal products referred to in Article 10 (1) (a).

5.2.2. Reports of studies pertinent to pharmaco-kinetics using human bio-materials

For the purposes of this Annex, human bio-materials shall mean any proteins, cells, tissues and related materials derived from human sources that are used in vitro or ex vivo to assess pharmaco-kinetics properties of drug substances.

In this respect, reports of plasma protein binding study, hepatic metabolism and active substance interaction studies and studies using other human bio-materials shall be provided.

5.2.3. Reports of human pharmaco-kinetic studies

- a) The following pharmaco-kinetic characteristics shall be described:
 - absorption (rate and extent),
 - distribution.
 - metabolism,
 - excretion.

Clinically significant features including the implication of the kinetic data for the dosage regimen especially for patients at risk, and differences between man and animal species used in the pre clinical studies, shall be described.

In addition to standard multiple-sample pharmaco-kinetics studies, population pharmaco-kinetics analyses based on sparse sampling during clinical studies can also address questions about the contributions of intrinsic and extrinsic factors to the variability in the dose- pharmaco-kinetics response relationship. Reports of pharmaco-kinetic and initial tolerability studies in healthy subjects and in patients, reports of pharmaco-kinetic studies to assess effects of intrinsic and extrinsic factors, and reports of population pharmaco-kinetic studies shall be provided.

b) If the medicinal product is normally to be administered concomitantly with other medicinal products, particulars shall be given of joint administration tests performed to demonstrate possible modification of the pharmacological action.

Pharmaco-kinetic interactions between the active substance and other medicinal products or substances shall be investigated.

5.2.4. Reports of human pharmaco-dynamic studies

- a) The pharmaco-dynamic action correlated to the efficacy shall be demonstrated including:
 - the dose-response relationship and its time course,
 - justification for the dosage and conditions of administration,
 - the mode of action, if possible.

The pharmaco-dynamic action not related to efficacy shall be described.

The demonstration of pharmaco-dynamic effects in human beings shall not in itself be sufficient to justify conclusions regarding any particular potential therapeutic effect.

b) If the medicinal product is normally to be administered concomitantly with other medicinal products, particulars shall be given of joint administration tests performed to demonstrate possible modification of the pharmacological action.

Pharmaco-dynamic interactions between the active substance and other medicinal products or substances shall be investigated.

5.2.5. Reports of efficacy and safety studies

5.2.5.1. Study Reports of Controlled Clinical Studies Pertinent to the Claimed Indication

In general, clinical trials shall be done as 'controlled clinical trials' if possible, randomised and as appropriate versus placebo and versus an established medicinal product of proven therapeutic value; any other design shall be justified. The treatment of the control groups will vary from case to case and also will depend on ethical considerations and therapeutic area; thus it may, in some instances, be more pertinent to compare the efficacy of a new medicinal product with that of an established medicinal product of proven therapeutic value rather than with the effect of a placebo.

- (1) As far as possible, and particularly in trials where the effect of the product cannot be objectively measured, steps shall be taken to avoid bias, including methods of randomisation and blinding.
- (2) The protocol of the trial must include a thorough description of the statistical methods to be employed, the number and reasons for inclusion of patients (including calculations of the power of the trial), the level of significance to be used and a description of the statistical unit. Measures taken to avoid bias, particularly methods of randomisation, shall be documented. Inclusion of a large number of subjects in a trial must not be regarded as an adequate substitute for a properly controlled trial.

The safety data shall be reviewed taking into account guidelines published by the Commission, with particular attention to events resulting in changes of dose or need for concomitant medication, serious adverse events, events resulting in withdrawal, and deaths. Any patients or patient groups at increased risk shall be identified and particular attention paid to potentially vulnerable patients who may be present in small numbers, e.g., children, pregnant women, frail elderly, people with marked abnormalities of metabolism or excretion etc. The implication of the safety evaluation for the possible uses of the medicinal product shall be described.

5.2.5.2. Study reports of uncontrolled clinical studies reports of analyses of data from more than one study and other clinical study reports

These reports shall be provided.

5.2.6. Reports of post-marketing experience

If the medicinal product is already authorised in third countries, information shall be given in respect of adverse reactions of the medicinal product concerned and medicinal products containing the same active substance(s), in relation to the usage rates if possible.

5.2.7. Case reports forms and individual patient listings

When submitted in accordance with the relevant Guideline published by the Agency, case report forms and individual patient data listings shall be provided and presented in the same order as the clinical study reports and indexed by study.

PART II

SPECIFIC MARKETING AUTHORISATION DOSSIERS AND REQUIREMENTS

Some medicinal products present specific features which are such that all the requirements of the marketing authorisation application dossier as laid down in Part I of this Annex need to be adapted. To take account of these particular situations, an appropriate and adapted presentation of the dossier shall be followed by applicants.

1. WELL-ESTABLISHED MEDICINAL USE

For medicinal products the active substance(s) of which has/have a 'well-established medicinal use' as referred to Article 10(1)(a)(ii), with recognised efficacy and an acceptable level of safety, the following specific rules shall apply.

The applicant shall submit Modules 1, 2 and 3 as described in part I of this Annex.

For Modules 4 and 5, a detailed scientific bibliography shall address non-clinical and clinical characteristics.

The following specific rules shall apply in order to demonstrate the well-established medicinal use:

- a) Factors which have to be taken into account in order to establish a well-established medicinal use of constituents of medicinal products are:
 - the time over which a substance has been used,
 - quantitative aspects of the use of the substance,
 - the degree of scientific interest in the use of the substance (reflected in the published scientific literature) and
 - the coherence of scientific assessments.

Therefore different periods of time may be necessary for establishing well-established use of different substances. In any case, however, the period of time required for establishing a well established medicinal use of a constituent of a medicinal product must not be less than one decade from the first systematic and documented use of that substance as a medicinal product in the Community.

- b) The documentation submitted by the applicant should cover all aspects of the safety and/or efficacy assessment and must include or refer to a review of the relevant literature, taking into account preand post-marketing studies and published scientific literature concerning experience in the form of epidemiological studies and in particular of comparative epidemiological studies. All documentation, both favourable and unfavourable, must be communicated. With respect to the provisions on 'well-established medicinal use' it is in particular necessary to clarify that 'bibliographic reference' to other sources of evidence (post marketing studies, epidemiological studies, etc.) and not just data related to tests and trials may serve as a valid proof of safety and efficacy of a product if an application explains and justifies the use of these sources of information satisfactorily.
- c) Particular attention must be paid to any missing information and justification must be given why demonstration of an acceptable level of safety and/or efficacy can be supported although some studies are lacking.
- d) The non-clinical and/or clinical overviews must explain the relevance of any data submitted which concern a product different from the product intended for marketing. A judgement must be made whether the product studied can be considered as similar to the product, for which application for a marketing authorisation has been made in spite of the existing differences.
- e) Post-marketing experience with other products containing the same constituents is of particular importance and applicants should put a special emphasis on this issue.

2. ESSENTIALLY SIMILAR MEDICINAL PRODUCTS

- a) Applications based upon Article 10(1) (a) (i) (essentially similar products) shall contain the data described in Modules 1, 2 and 3 of Part I of this Annex provided the applicant has been granted the consent of the holder of the original marketing authorisation to cross refer to the content of his Modules 4 and 5.
- b) Applications based upon Article 10(1) (a) (iii) (essentially similar products i.e. generics) shall contain the data described in Modules 1, 2 and 3 of Part I of this Annex together with data showing bioavailability and bio-equivalence with the original medicinal product provided the latter is not a biological medicinal product (see Part II, 4 Similar biological medicinal products).

For these products the non-clinical/clinical overviews/summaries shall particularly focus on the following elements:

- the grounds for claiming essential similarity;
- a summary of impurities present in batches of the active substance(s) as well as those of the finished medicinal product (and where relevant decomposition products arising during storage) as proposed for use in the product to be marketed together with an evaluation of these impurities;
- an evaluation of the bio-equivalence studies or a justification why studies were not performed with respect to the guideline on 'Investigation of Bio-availability and Bio-equivalence';
- an update of published literature relevant to the substance and the present application. It may be acceptable for articles in 'peer review' journals to be annotated for this purpose;
- every claim in the summary of product characteristics not known from or inferred from the properties of the medicinal product and/or its therapeutic group should be discussed in the non clinical/clinical overviews/summaries and substantiated by published literature and/or additional studies
- if applicable, additional data in order to demonstrate evidence on the equivalence of safety and
 efficacy properties of different salts, esters or derivatives of an authorised active substance should be
 provided by the applicant when he claims essential similarity.

3. ADDITIONAL DATA REQUIRED IN SPECIFIC SITUATIONS

Where the active substance of an essentially similar medicinal product contains the same therapeutic moiety as the original authorised product associated with a different salt/ester complex/derivative evidence that there is no change in the pharmaco-kinetics of the moiety, pharmaco-dynamics and/or in toxicity which could change the safety/efficacy profile shall be demonstrated. Should this not be the case, this association shall be considered as a new active substance.

Where a medicinal product is intended for a different therapeutic use or presented in a different pharmaceutical form or to be administered by different routes or in different doses or with a different posology, the results of appropriate toxicological and pharmacological tests and/or of clinical trials shall be provided.

4. SIMILAR BIOLOGICAL MEDICINAL PRODUCTS

The provisions of Article 10(1)(a) (iii) may not be sufficient in the case of biological medicinal products. If the information required in the case of essentially similar products (generics) does not permit the demonstration of the similar nature of two biological medicinal products, additional data, in particular, the toxicological and clinical profile shall be provided.

When a biological medicinal product as defined in Part I, paragraph 3.2 of this Annex, which refers to an original medicinal product having been granted a marketing authorisation in the Community, is submitted for a marketing authorisation by an independent applicant after the expiry of data protection period, the following approach shall be applied.

- Information to be supplied shall not be limited to Modules 1, 2 and 3 (pharmaceutical, chemical and biological data), supplemented with bio-equivalence and bio-availability data. The type and amount of additional data (i.e. toxicological and other non-clinical and appropriate clinical data) shall be determined on a case by case basis in accordance with relevant scientific guidelines.
- Due to the diversity of biological medicinal products, the need for identified studies foreseen in Modules 4 and 5, shall be required by the competent authority, taking into account the specific characteristic of each individual medicinal product.

The general principles to be applied are addressed in a guideline taking into account the characteristics of the concerned biological medicinal product published by the Agency. In case the originally authorised medicinal product has more than one indication, the efficacy and safety of the medicinal product claimed to be similar has to be justified or, if necessary, demonstrated separately for each of the claimed indications.

FIXED COMBINATION MEDICINAL PRODUCTS

Applications based upon Article 10 (1) (b) shall relate to new medicinal products made of at least two active substances not previously authorised as a fixed combination medicinal product.

For those applications a full dossier (Modules 1 to 5) shall be provided for the fixed combination medicinal product. Where applicable, information regarding the manufacturing sites and the adventitious agents, safety evaluation shall be provided.

6. DOCUMENTATION FOR APPLICATIONS IN EXCEPTIONAL CIRCUMSTANCES

When, as provided for in Article 22, the applicant can show that he is unable to provide comprehensive data on the efficacy and safety under normal conditions of use, because:

- the indications for which the product in question is intended are encountered so rarely that the applicant cannot reasonably be expected to provide comprehensive evidence, or
- in the present state of scientific knowledge, comprehensive information cannot be provided, or
- it would be contrary to generally accepted principles of medical ethics to collect such information,

marketing authorisation may be granted subject to certain specific obligations.

These obligations may include the following:

- the applicant shall complete an identified programme of studies within a time period specified by
 the competent authority, the results of which shall form the basis of a reassessment of the benefit/
 risk profile,
- the medicinal product in question may be supplied on medical prescription only and may in certain
 cases be administered only under strict medical supervision, possibly in a hospital and in the case of
 a radio-pharmaceutical, by an authorised person,
- the package leaflet and any medical information shall draw the attention of the medical practitioner to the fact that the particulars available concerning the medicinal product in question are as yet inadequate in certain specified respects.

7. MIXED MARKETING AUTHORISATION APPLICATIONS

Mixed marketing-authorisation applications shall mean marketing-authorisation application dossiers where Module 4 and/or 5 consists of a combination of reports of limited non-clinical and/or clinical studies carried out by the applicant and of bibliographical references. All other Module(s) are in accordance with the structure described in Part I of this Annex. The competent authority shall accept the proposed format presented by the applicant on a case by case basis.

PART III

PARTICULAR MEDICINAL PRODUCTS

This Part lays down specific requirements related to the nature of identified medicinal products.

1. BIOLOGICAL MEDICINAL PRODUCTS

1.1. Plasma-derived medicinal product

For medicinal products derived from human blood or plasma and by derogation from the provisions of Module 3, the dossier requirements mentioned in 'Information related to the starting and raw materials', for starting materials made of human blood/plasma may be replaced by a Plasma Master File certified in accordance with this Part.

a) Principles

For the purposes of this Annex:

- Plasma Master File shall mean a stand-alone documentation, which is separate from the dossier for marketing authorisation which provides all relevant detailed information on the characteristics of the entire human plasma used as a starting material and/or a raw material for the manufacture of sub/intermediate fractions, constituents of the excipient and active substance(s), which are part of medicinal products or medical devices referred to in Directive 2000/70/EC of the European Parliament and of the Council of 16 November 2000 amending Council Directive 93/42/EC as regards medical devices incorporating stable derivatives of human blood or human plasma (¹).
- Every centre or establishment for fractionation/processing of human plasma shall prepare and keep updated the set of detailed relevant information referred to in the Plasma Master File.
- The Plasma Master File shall be submitted to the Agency or to the competent authority by the applicant for a marketing authorisation or the holder of the marketing authorisation. Where the applicant for a marketing authorisation or the marketing authorisation holder differs from the holder of the Plasma Master File, the Plasma Master File shall be made available to the applicant or marketing authorisation holder for submission to the competent authority. In any case, the applicant or marketing authorisation holder shall take responsibility for the medicinal product.
- The competent authority that is evaluating the marketing authorisation shall await for the Agency to issue the certificate before deciding on the application.
- Any marketing authorisation dossier containing a human plasma-derived constituent shall refer to the Plasma Master File corresponding to the plasma used as a starting/raw material.

b) Content

In accordance with the provisions of Article 109, as amended by Directive 2002/98/EC, which refers to the requirements for donors and the testing of donations, the Plasma Master File shall include information on the plasma used as starting/raw material, in particular:

(1) Plasma origin

- information on centres or establishments in which blood/plasma collection is carried out, including inspection and approval, and epidemiological data on blood transmissible infections.
- (ii) information on centres or establishments in which testing of donations and plasma pools is carried out, including inspection and approval status.
- (iii) selection/exclusion criteria for blood/plasma donors.
- (iv) system in place which enables the path taken by each donation to be traced from the blood/ plasma collection establishment through to finished products and vice versa.
- (2) Plasma quality and safety
 - (i) compliance with European Pharmacopoeia Monographs.
 - (ii) testing of blood/plasma donations and pools for infectious agents, including information on test methods and, in the case of plasma pools, validation data on the tests used.
 - (iii) technical characteristics of bags for blood and plasma collection, including information on anticoagulants solutions used.
 - (iv) conditions of storage and transport of plasma.
 - (v) procedures for any inventory hold and/or quarantine period.
 - (vi) characterisation of the plasma pool.
- (3) System in place between the plasma-derived medicinal product manufacturer and/or plasma fractionator/processor on the one hand, and blood/plasma collection and testing centres or establishments on the other hand, which defines the conditions of their interaction and their agreed specifications.

In addition, the Plasma Master File shall provide a list of the medicinal products for which the Plasma Master File is valid, whether the medicinal products have been granted a marketing authorisation or are in the process of being granted such an authorisation, including medicinal products referred to in Article 2 of Directive 2001/20/EC of the European Parliament and of the Council relating to the implementation of good clinical practice in the conduct of clinical trials on medicinal products for human use.

c) Evaluation and Certification

- For medicinal products not yet authorised, the marketing authorisation applicant shall submit a full
 dossier to a competent authority, which shall be accompanied by a separate Plasma Master File
 where one does not already exist.
- The Plasma Master File is subject to a scientific and technical evaluation carried out by the Agency. A positive evaluation shall result in a certificate of compliance with Community legislation for the Plasma Master File, which shall be accompanied by the evaluation report. The certificate issued shall apply throughout the Community.
- The Plasma Master File shall be updated and re-certified on an annual basis.

- Changes subsequently introduced to the terms of a Plasma Master File must follow evaluation procedure laid down by Commission Regulation (EC) No 542/95 (¹) concerning the examination of variations to the terms of a marketing authorisation falling within the scope of Council regulation (EEC) No 2309/93 of 22 July 1993 laying down Community procedures for the authorisation and supervision of medicinal products for human and veterinary use and establishing a European Agency for the Evaluation of Medicinal Products (²). Conditions for the assessment of these changes are laid down by Regulation (EC) No 1085/2003.
- As a second step to the provisions in the first, second, third and fourth indents, the competent
 authority that will grant or has granted the marketing authorisation shall take into account the
 certification, re-certification or variation of the Plasma Master File on the concerned medicinal
 product(s).
- By derogation from the provisions of the second indent of the present point (evaluation and certification), where a Plasma Master File corresponds only to blood/plasma-derived medicinal products the marketing authorisation of which is restricted to a single Member State, the scientific and technical evaluation of the said Plasma Master File shall be carried out by the national competent authority of that Member State.

1.2. Vaccines

For vaccines for human use and by derogation from the provisions of Module 3 on 'Active substance(s)', the following requirements when based on the use of a Vaccine Antigen Master File system shall apply.

The marketing authorisation application dossier of a vaccine other than human influenza vaccine, shall be required to include a Vaccine Antigen Master File for every vaccine antigen that is an active substance of this vaccine.

a) Principles

For the purposes of this Annex:

- Vaccine Antigen Master File shall mean a stand-alone part of the marketing authorisation application dossier for a vaccine, which contains all relevant information of biological, pharmaceutical and chemical nature concerning each of the active substances, which are part of this medicinal product. The stand-alone part may be common to one or more monovalent and/or combined vaccines presented by the same applicant or marketing authorisation holder.
- A vaccine may contain one or several distinct vaccine antigens. There are as many active substance(s)
 as vaccine antigen(s) present in a vaccine.
- A combined vaccine contains at least two distinct vaccine antigens aimed at preventing a single or several infectious diseases
- A monovalent vaccine is a vaccine, which contains one vaccine antigen aimed at preventing a single infectious disease.

b) Content

The Vaccine Antigen Master File shall contain the following information extracted from the relevant part (Active substance) of Module 3 on 'Quality Data' as delineated in Part I of this Annex:

Active Substance

- 1. General Information, including compliance with the relevant monograph(s) of the European Pharmacopoeia.
- Information on the manufacture of the active substance: this heading must cover the manufacturing process, information on the starting and raw materials, specific measures on TSEs and adventitious agents safety evaluation and facilities and equipment.

⁽²⁾ OJ L 214, 24.8.1993, p. 1.

- Characterisation of the active substance
- 4. Quality control of the active substance
- 5. Reference standard and materials
- 6. Container and closure system of the active substance
- 7. Stability of the active substance.

c) Evaluation and Certification

- For novel vaccines, which contain a novel vaccine antigen, the applicant shall submit to a competent authority a full marketing-authorisation application dossier including all the Vaccine Antigen Master Files corresponding to each single vaccine antigen that is part of the novel vaccine where no master file already exists for the single vaccine antigen. A scientific and technical evaluation of each Vaccine Antigen Master File shall be carried out by the Agency. A positive evaluation shall result in a certificate of compliance to the European legislation for each Vaccine Antigen Master File, which shall be accompanied by the evaluation report. The certificate shall apply throughout the Community.
- The provisions of the first indent shall also apply to every vaccine, which consists of a novel combination of vaccine antigens, irrespective of whether or not one or more of these vaccine antigens are part of vaccines already authorised in the Community.
- Changes to the content of a Vaccine Antigen Master File for a vaccine authorised in the Community shall be subject to a scientific and technical evaluation carried out by the Agency in accordance with the procedure laid down in Commission Regulation (EC) No 1085/2003. In the case of a positive evaluation the Agency shall issue a certificate of compliance with Community legislation for the Vaccine Antigen Master File. The certificate issued shall apply throughout the Community.
- By derogation from the provisions of the first, second and third indents of the present point (evaluation and certification), where a Vaccine Antigen Master File corresponds only to a vaccine which is the subject of a marketing authorisation which has not been/will not be granted according to a Community procedure, and, provided the authorised vaccine includes vaccine antigens which have not been evaluated through a Community procedure, the scientific and technical evaluation of the said Vaccine Antigen Master File and its subsequent changes, shall be carried out by the national competent authority that has granted the marketing authorisation.
- As a second step to the provisions in the first, second, third and fourth indents, the competent
 authority that will grant or has granted the marketing authorisation shall take into account the
 certification, re-certification or variation of the Vaccine Antigen Master File on the concerned
 medicinal product(s).

2. RADIO-PHARMACEUTICALS AND PRECURSORS

2.1. Radio-pharmaceuticals

For the purposes of this chapter, applications based upon Articles 6 (2) and 9 shall provide a full dossier in which the following specific details shall be included:

Module 3

a) In the context of a radio-pharmaceutical kit, which is to be radio-labelled after supply by the manufacturer, the active substance is considered to be that part of the formulation which is intended to carry or bind the radio-nuclide. The description of the manufacturing method of radio-pharmaceutical kits shall include details of the manufacture of the kit and details of its recommended final processing to produce the radioactive medicinal product. The necessary specifications of the radio-nuclide shall be described in accordance, where relevant, with the general monograph or specific monographs of the European Pharmacopoeia. In addition, any compounds essential for the radio-labelling shall be described. The structure of the radio-labelled compound shall also be described.

For radio-nuclides, the nuclear reactions involved shall be discussed.

In a generator, both mother and daughter radio-nuclides shall be considered as active substances.

- b) Details of the nature of the radio-nuclide, the identity of the isotope, likely impurities, the carrier, the use and the specific activity shall be provided.
- c) Starting materials include irradiation target materials.
- d) Considerations on chemical/radiochemical purity and its relationship to bio-distribution shall be provided.
- e) Radio-nuclide purity, radiochemical purity and specific activity shall be described.
- f) For generators, details on the testing for mother and daughter radio-nuclides are required. For generator-eluates, tests for mother radio-nuclides and for other constituents of the generator system shall be provided.
- g) The requirement to express the content of active substances in terms of the mass of active entities shall onlyapply to radio-pharmaceutical kits. For radio-nuclides, radioactivity shall be expressed in Becquerels at a given date and, if necessary, time with reference to time zone. The type of radiation shall be indicated.
- h) For kits, the specifications of the finished product shall include tests on performance of products after radio-labelling. Appropriate controls on radiochemical and radio-nuclidic purity of the radiolabelled compound shall be included. Any material essential for radio-labelling shall be identified and assayed.
- Information on stability shall be given for radio-nuclide generators, radio-nuclide kits and radiolabelled products. The stability during use of radio-pharmaceuticals in multi-dose vials shall be documented.

Module 4

It is appreciated that toxicity may be associated with a radiation dose. In diagnosis, this is a consequence of the use of radio-pharmaceuticals; in therapy, it is the property desired. The evaluation of safety and efficacy of radio-pharmaceuticals shall, therefore, address requirements for medicinal products and radiation dosimetry aspects. Organ/tissue exposure to radiation shall be documented. Absorbed radiation dose estimates shall be calculated according to a specified, internationally recognised system by a particular route of administration.

Module 5

The results of clinical trials shall be provided where applicable otherwise justified in the clinical overviews.

2.2. Radio-pharmaceutical precursors for radio-labelling purposes

In the specific case of a radio-pharmaceutical precursor intended solely for radio-labelling purposes, the primary objective shall be to present information which would address the possible consequences of poor radio-labeling efficiency or in vivo dissociation of the radio-labeled conjugate, i.e. questions related to the effects produced in the patient by free radio-nuclide. In addition, it is also necessary to present relevant information relating to occupational hazards, i.e. radiation exposure to hospital staff and to the environment.

In particular, the following information where applicable shall be provided:

Module 3

The provisions of Module 3 shall apply to the registration of radio-pharmaceutical precursors as define above (indents a) to i)), where applicable.

Module 4

Concerning single dose and repeat dose toxicity, the results of studies carried out in conformity with the provisions related to good laboratory practice laid down in Council Directives 87/18/EEC and 88/320/EEC shall be provided, unless otherwise justified.

Mutagenicity studies on the radio-nuclide are not considered to be useful in this particular case.

Information relating to the chemical toxicity and disposition of the relevant 'cold' nuclide shall be presented.

Module 5

Clinical information generated from clinical studies using on the precursor itself is not considered to be relevant in the specific case of a radio-pharmaceutical precursor intended solely for radio-labelling purposes.

However, information demonstrating the clinical utility of the radio-pharmaceutical precursor when attached to relevant carrier molecules shall be presented.

3. HOMEOPATHIC MEDICINAL PRODUCTS

This section sets out specific provisions on the application of Modules 3 and 4 to homeopathic medicinal products as defined in Article 1(5).

Module 3

The provisions of Module 3 shall apply to the documents submitted in accordance with Article 15 in the simplified registration of homeopathic medicinal products referred to in Article 14(1) as well as to the documents for authorisation of other homeopathic medicinal products referred to in Article 16(1) with the following modifications.

a) Terminology

The Latin name of the homeopathic stock described in the marketing authorisation application dossier must be in accordance with the Latin title of the European Pharmacopoeia or, in absence thereof, by an official pharmacopoeia of a Member State. Where relevant the traditional name(s) used in each Member State shall be provided.

b) Control of starting materials

The particulars and documents on the starting materials, i.e. all of the materials used including raw materials and intermediates up to the final dilution to be incorporated into the finished medicinal product, accompanying the application shall be supplemented by additional data on the homeopathic stock

The general quality requirements shall apply to all of the starting and raw materials as well as intermediate steps of the manufacturing process up to the final dilution to be incorporated into the finished medicinal product. If possible, an assay is required if toxic components are present and if the quality cannot be controlled on final dilution to be incorporated because of the high dilution degree. Every step of the manufacturing process from the starting materials up to the final dilution to be incorporated into the finished medicinal product must be fully described.

In case dilutions are involved, these dilution steps should be done in accordance with the homeopathicmanufacturing methods laid down in the relevant monograph of the European Pharmacopoeia or, in absence thereof, by an official pharmacopoeia of a Member State.

c) Control tests on the finished medicinal product

The general quality requirements shall apply to the homeopathic finished medicinal products, any exception needs to be duly justified by the applicant.

Identification and assay of all the toxicologically relevant constituents shall be carried out. If it can be justified that an identification and/or an assay on all the toxicologically relevant constituents is not possible e.g. due to their dilution in the finished medicinal product the quality shall be demonstrated by complete validation of the manufacturing and dilution process.

d) Stability tests

The stability of the finished medicinal product must be demonstrated. Stability data from the homeopathic stocks are generally transferable to dilutions/triturations obtained thereof. If no identification or assay of the active substance is possible due to the degree of dilution, stability data of the pharmaceutical form may be considered.

Module 4

The provisions of Module 4 shall apply to the simplified registration of homeopathic medicinal products referred to in Article 14(1) with the following specifications.

Any missing information must be justified, e.g., justification must be given why demonstration of an acceptable level of safety can be supported although some studies are lacking.

4. HERBAL MEDICINAL PRODUCTS

Applications for herbal medicinal products shall provide a full dossier in which the following specific details shall be included.

Module 3

The provisions of Module 3, including compliance with monograph(s) of the European Pharmacopoeia, shall apply to the authorisation of herbal medicinal products. The state of scientific knowledge at the time when the application is lodged shall be taken into account.

The following aspects specific to herbal medicinal products shall be considered:

(1) Herbal substances and herbal preparations

For the purposes of this Annex the terms 'herbal substances and preparations' shall be considered equivalent to the terms 'herbal drugs and herbal drug preparations', as defined in the European Pharmacopoeia.

With respect to the nomencRlature of the herbal substance, the binomial scientific name of plant (genus, species, variety and author), and chemotype (where applicable), the parts of the plants, the definition of the herbal substance, the other names (synonyms mentioned in other Pharmacopoeias) and the laboratory code shall be provided.

With respect to the nomenclature of the herbal preparation, the binomial scientific name of plant (genus, species, variety and author), and chemotype (where applicable), the parts of the plants, the definition of the herbal preparation, the ratio of the herbal substance to the herbal preparation, the extraction solvent(s), the other names (synonyms mentioned in other Pharmacopoeias) and the laboratory code shall be provided.

To document the section of the structure for herbal substance(s) and herbal preparation(s) where applicable, the physical form, the description of the constituents with known therapeutic activity or markers (molecular formula, relative molecular mass, structural formula, including relative and absolute stereo-chemistry, the molecular formula, and the relative molecular mass) as well as other constituent(s) shall be provided.

To document the section on the manufacturer of the herbal substance, the name, address, and responsibility of each supplier, including contractors, and each proposed site or facility involved in production/collection and testing of the herbal substance shall be provided, where appropriate.

To document the section on the manufacturer of the herbal preparation, the name, address, and responsibility of each manufacturer, including contractors, and each proposed manufacturing site or facility involved in manufacturing and testing of the herbal preparation shall be provided, where appropriate.

With respect to the description of manufacturing process and process controls for the herbal substance, information shall be provided to adequately describe the plant production and plant collection, including the geographical source of the medicinal plant and cultivation, harvesting, drying and storage conditions.

With respect to the description of manufacturing process and process controls for the herbal preparation, information shall be provided to adequately describe the manufacturing process of the herbal preparation, including description of the processing, solvents and reagents, purification stages and standardisation.

With respect to the manufacturing process development, a brief summary describing the development of the herbal substance(s) and herbal preparation(s) where applicable shall be provided, taking into consideration the proposed route of administration and usage. Results comparing the phyto-chemical composition of the herbal substance(s) and herbal preparation(s) where applicable used in supporting bibliographic data and the herbal substance(s) and herbal preparation(s), where applicable, contained as active substance(s) in the herbal medicinal product applied for shall be discussed, where appropriate.

With respect to the elucidation of the structure and other characteristics of the herbal substance, information on the botanical, macroscopical, microscopical, phyto-chemical characterisation, and biological activity if necessary, shall be provided.

With respect to the elucidation of the structure and other characteristics of the herbal preparation, information on the phyto- and physicochemical characterisation, and biological activity if necessary, shall be provided.

The specifications for the herbal substance(s) and herbal preparation(s) where applicable shall be provided.

The analytical procedures used for testing the herbal substance(s) and herbal preparation(s) where applicable shall be provided.

With respect to the validation of analytical procedures, analytical validation information, including experimental data for the analytical procedures used for testing the herbal substance(s) and herbal preparation(s) where applicable shall be provided.

With respect to batch analyses, description of batches and results of batch analyses for the herbal substance(s) and herbal preparation(s) where applicable shall be provided, including those for pharmacopoeial substances.

Justification for the specifications of the herbal substance(s) and herbal preparation(s) where applicable shall be provided.

Information on the reference standards or reference materials used for testing of the herbal substance(s) and herbal preparation(s) where applicable shall be provided.

Where the herbal substance or the herbal preparation is the subject of a monograph, the applicant can apply for a certificate of suitability that was granted by the European Directorate for the Quality of Medicines.

(2) Herbal Medicinal Products

With respect to the formulation development, a brief summary describing the development of the herbal medicinal product should be provided, taking into consideration the proposed route of administration and usage. Results comparing the phyto-chemical composition of the products used in supporting bibliographic data and the herbal medicinal product applied for shall be discussed, where appropriate.

5. ORPHAN MEDICINAL PRODUCTS

- In the case of an orphan medicinal product in the meaning of Regulation (EC) No 141/2000, general provisions of Part II-6 (exceptional circumstances) can be applied. The applicant shall then justify in the non-clinical and clinical summaries the reasons for which it is not possible to provide the complete information and shall provide a justification of the benefit/risk balance for the orphan medicinal product concerned.
- When an applicant for an marketing authorisation for an orphan medicinal product invokes the provisions of Article 10 (1)(a)(ii) and Part II-1 of this Annex (well-established medicinal use), the systematic and documented use of the concerned substance can refer as way of derogation to the use of that substance in accordance with the provisions of Article 5 of this Directive.

PART IV

ADVANCED THERAPY MEDICINAL PRODUCTS

Advanced therapy medicinal products are based on manufacturing processes focussed on various gene transfer-produced bio-molecules, and/or biologically advanced therapeutic modified cells as active substances or part of active substances.

For those medicinal products the presentation of the Marketing Authorisation application dossier shall fulfil the format requirements as described in Part I of this Annex.

Modules 1 to 5 shall apply. For Genetically Modified Organisms deliberate release in the environment, attention shall be paid to the persistence of the Genetically Modified Organisms in the recipient and to the possible replication and/ or modification of the Genetically Modified Organisms when released in the environment. The information concerning the environmental risk should appear in the Annex to Module 1.

1. GENE THERAPY MEDICINAL PRODUCTS (HUMAN AND XENOGENEIC)

For the purposes of this Annex, gene therapy medicinal product shall mean a product obtained through a set of manufacturing processes aimed at the transfer, to be performed either in vivo or ex vivo, of a prophylactic, diagnostic or therapeutic gene (i.e. a piece of nucleic acid), to human/animal cells and its subsequent expression in vivo. The gene transfer involves an expression system contained in a delivery system known as a vector, which can be of viral, as well as non-viral origin. The vector can also be included in a human or animal cell.

1.1. Diversity of gene therapy medicinal products

a) Gene therapy medicinal products based on allogeneic or xenogeneic cells

The vector is ready-prepared and stored before its transfer into the host cells.

The cells have been obtained previously and may be processed as a cell bank (bank collection or bank established from procurement of primary cells) with a limited viability.

The cells genetically modified by the vector represent an active substance.

Additional steps may be carried out in order to obtain the finished product. By essence, such a medicinal product is intended to be administered to a certain number of patients.

b) Gene therapy medicinal products using autologous human cells

The active substance is a batch of ready-prepared vector stored before its transfer into the autologous cells.

Additional steps may be carried out in order to obtain the finished medicinal product.

Those products are prepared from cells obtained from an individual patient. The cells are then genetically modified using a ready-prepared vector containing the appropriate gene that has been prepared in advance and that constitutes the active substance. The preparation is re-injected into the patient and is by definition intended to a single patient. The whole manufacturing process from the collection of the cells from the patient up to the re-injection to the patient shall be considered as one intervention.

 Administration of ready-prepared vectors with inserted (prophylactic, diagnostic or therapeutic) genetic material

The active substance is a batch of ready-prepared vector.

Additional steps may be carried out in order to obtain the finished medicinal product. This type of medicinal product is intended to be administered to several patients.

Transfer of genetic material may be carried out by direct injection of the ready-prepared vector to the recipients.

1.2. Specific requirements regarding Module 3

Gene therapy medicinal products include:

- naked nucleic acid
- complex nucleic acid or non viral vectors
- viral vectors
- genetically modified cells

As for other medicinal products, one can identify the three main elements of the manufacturing process, i.e.:

- starting materials: materials from which the active substance is manufactured such as, gene of
 interest, expression plasmids, cell banks and virus stocks or non viral vector;
- active substance: recombinant vector, virus, naked or complex plasmids, virus producing cells, in vitro genetically modified cells;
- finished medicinal product: active substance formulated in its final immediate container for the intended medical use. Depending on the type of gene therapy medicinal product, the route of administration and conditions of use may necessitate an ex vivo treatment of the cells of the patient (see 1.1.b).

A special attention shall be paid to the following items:

- a) Information shall be provided on the relevant characteristics of the gene therapy medicinal product including its expression in the target cell population. Information concerning the source, construction, characterisation and verification of the encoding gene sequence including its integrity and stability shall be provided. Apart from therapeutic gene, the complete sequence of other genes, regulatory elements and the vector backbone shall be provided.
- b) Information concerning the characterisation of the vector used to transfer and deliver the gene shall be provided. This must include its physico-chemical characterisation and/or biological/ immunological characterisation.

For medicinal products that utilise a micro-organism such as bacteria or viruses to facilitate gene transfer (biological gene transfer), data on the pathogenesis of the parental strain and on its tropism for specific tissues and cell types as well as the cell cycle-dependence of the interaction shall be provided.

For medicinal products that utilise non-biological means to facilitate gene transfer, the physico-chemical properties of the constituents individually and in combination shall be provided.

- c) The principles for cell banking or seed lot establishment and characterisation shall apply to gene transfer medicinal products as appropriate.
- d) The source of the cells hosting the recombinant vector shall be provided.

The characteristics of the human source such as age, sex, results of microbiological and viral testing, exclusion criteria and country of origin shall be documented.

For cells of animal origin, detailed information related to the following items shall be provided:

- Sourcing of the animals
- Animal husbandry and care
- Transgenic animals (methods of creation, characterisation of transgenic cells, nature of the inserted gene)
- Measures to prevent and monitor infections in the source/donor animals
- Testing for infectious agents
- Facilities
- Control of starting and raw materials.

Description of cell collection methodology including location, type of tissue, operating process, transportation, storage and traceability as well as controls carried out during the collection process shall be documented.

e) The evaluation of the viral safety as well as the traceability of the products from the donor to the finished medicinal product, are an essential part of the documentation to be supplied. E.g., the presence of replication competent virus in stocks of non-replication competent viral vectors must be excluded.

2. SOMATIC CELL THERAPY MEDICINAL PRODUCTS (HUMAN AND XENOGENEIC)

For the purposes of this Annex, somatic cell therapy medicinal products shall mean the use in humans of autologous (emanating from the patient himself), allogeneic (coming from another human being) or xenogeneic (coming from animals) somatic living cells, the biological characteristics of which have been substantially altered as a result of their manipulation to obtain a therapeutic, diagnostic or preventive effect through metabolic, pharmacological and immunological means. This manipulation includes the expansion or activation of autologous cell populations ex vivo (e.g., adoptive immuno-therapy), the use of allogeneic and xenogeneic cells associated with medical devices used ex vivo or in vivo (e.g., microcapsules, intrinsic matrix scaffolds, bio-degradable or not).

Specific requirements for cell therapy medicinal products regarding Module 3

Somatic cell therapy medicinal products include:

- Cells manipulated to modify their immunological, metabolic or other functional properties in qualitative or quantitative aspects;
- Cells sorted, selected and manipulated and subsequently undergoing a manufacturing process in order to obtain the finished medicinal product;
- Cells manipulated and combined with non-cellular components (e.g. biological or inert matrixes or medical devices) and exerting the principle intended action in the finished product;
- Autologous cell derivatives expressed in vitro under specific culture conditions;
- Cells genetically modified or otherwise manipulated to express previously unexpressed homologous or non-homologous functional properties.

The whole manufacturing process from the collection of the cells from the patient (autologous situation) up to the re-injection to the patient shall be considered as one single intervention.

As for other medicinal products, the three elements of the manufacturing process are identified:

- starting materials: materials from which the active substance is manufactured, i.e., organs, tissues, body fluids or cells;
- active substance: manipulated cells, cell lysates, proliferating cells and cells used in conjunction with inert matrixes and medical devices;
- finished medicinal products: active substance formulated in its final immediate container for the intended medical use.
- a) General information on active substance(s)

The active substances of cell therapy medicinal products consist of cells which as a consequence of in vitro processing display prophylactic, diagnostic or therapeutic properties different from the original physiological and biological one.

This section shall describe the type of cells and culture concerned. Tissues, organs or biological fluids from which cells are derived as well as the autologous, allogeneic, or xenogeneic nature of the donation and its geographical origin shall be documented. Collection of the cells, sampling and storage prior further processing shall be detailed. For allogeneic cells, special attention shall be paid to the very first step of the process, which covers selection of donors. The type of manipulation carried out and the physiological function of the cells that are used as active substance shall be provided.

b) Information related to the starting materials of active substance(s)

1. Human somatic cells

Human somatic cell therapy medicinal products are made of a defined number (pool) of viable cells, which are derived from a manufacturing process starting either at the level of organs or tissues retrieved from a human being, or, at the level of a well defined cell bank system where the pool of cells relies on continuous cell lines. For the purposes of this chapter, active substance shall mean the seed pool of human cells and finished medicinal product shall mean seed pool of human cells formulated for the intended medical use.

Starting materials and each step of the manufacturing process shall be fully documented including viral safety aspects.

(1) Organs, tissues, body fluids and cells of human origin

The characteristics of the human source such as age, sex, microbiological status, exclusion criteria and country of origin shall be documented.

Description of sampling including site, type, operating process, pooling, transportation, storage and traceability as well as controls carried out on sampling shall be documented.

(2) Cell banking systems

Relevant requirements depicted in part I shall apply for the preparation and quality control of cell banking systems. This may essentially be the case for allogeneic or xenogeneic cells.

(3) Ancillary materials or ancillary medical devices

Information shall be provided on the use of any raw materials (e.g., cytokines, growth factors, culture media) or of possible ancillary products and medical devices e.g., cell sorting devices, biocompatible polymers, matrix, fibres, beads in terms of bio-compatibility, functionality as well as the risk of infectious agents.

2. Animal somatic cells (xenogeneic)

Detailed information related to the following items shall be provided:

- Sourcing of the animals
- Animal husbandry and care
- Genetically modified animals (methods of creation, characterisation of transgenic cells, nature of the inserted or excised (knock out) gene)
- Measures to prevent and monitor infections in the source/donor animals
- Testing for infectious agents including vertically transmitted micro-organisms (also endogenous retro viruses)
- Facilities
- Cell banking systems
- Control of starting and raw materials.
- a) Information on the manufacturing process of the active substance(s) and the finished product

The different steps of the manufacturing process such as organ/tissue dissociation, selection of the cell population of interest, in vitro cell culture, cell transformation either by physico-chemical agents or gene transfer shall be documented.

b) Characterisation of active substance(s)

All of the relevant information on the characterisation of the cell population of interest in terms of identity (species of origin, banding cytogenetics, morphological analysis), purity (adventitious microbial agents and cellular contaminants), potency (defined biological activity), and suitability (karyology and tumorigenicity tests) for the intended medicinal use shall be provided.

c) Pharmaceutical development of finished medicinal product

Apart from the specific method of administration used (intravenous infusion, site-injection, transplantation surgery), information shall also be provided on the use of possible ancillary medical devices (bio-compatible polymers, matrix, fibres, beads) in terms of bio-compatibility and durability.

d) Traceability

A detailed flow chart shall be provided insuring the traceability of the products from the donor to the finished medicinal product.

3. SPECIFIC REQUIREMENTS FOR GENE THERAPY AND SOMATIC CELL THERAPY (HUMAN AND XENOGENEIC) MEDICINAL PRODUCTS REGARDING MODULES 4 AND 5

3.1. **Module 4**

For gene and somatic cell therapy medicinal products, it is recognised that conventional requirements as laid down in Module 4 for non-clinical testing of medicinal products may not always be appropriate due to unique and diverse structural and biological properties of the products in question, including high degree of species specificity, subject specificity, immunological barriers and differences in pleiotropic responses.

The rationale underpinning the non-clinical development and the criteria used to choose relevant species and models shall be properly captioned in Module 2.

It may be necessary to identify or develop new animal models in order to assist in the extrapolation of specific findings on functional endpoints and toxicity to in vivo activity of the products in human beings. The scientific justification for the use of these animal models of disease to support safety and proof of concept for efficacy shall be provided.

3.2. **Module 5**

The efficacy of advanced therapy medicinal products must be demonstrated as described in Module 5. For some products and for some therapeutic indications, however, it may not be possible to perform conventional clinical trials. Any deviation from the existing guidelines shall be justified in Module 2.

The clinical development of advanced therapy medicinal products will have some special features owing to the complex and labile nature of the active substances. It requires additional considerations because of issues related to viability, proliferation, migration and differentiation of cells (somatic cell therapy), because of the special clinical circumstances where the products are used or because of the special mode of action through gene expression (somatic gene therapy).

Special risks associated with such products arising from potential contamination with infectious agents must be addressed in the application for marketing authorisation for advanced therapy medicinal products. Special emphasis should be put on both the early stages of development in one hand, including the choice of donors in the case of cell therapy medicinal products, and on the therapeutic intervention as a whole, including the proper handling and administration of the product on the other hand.

Furthermore, Module 5 of the application should contain, as relevant, data on the measures to surveying and control of the functions and development of living cells in the recipient, to prevent transmission of infectious agents to the recipient and to minimise any potential risks to public health.

3.2.1. Human pharmacology and efficacy studies

Human pharmacology studies should provide information on the expected mode of action, expected efficacy based on justified end-points, bio-distribution, adequate dose, schedule, and methods of administration or modality of use desirable for efficacy studies.

Conventional pharmaco-kinetic studies may not be relevant for some advanced therapy products. Sometimes studies in healthy volunteers are not feasible and the establishment of dose and kinetics will be difficult to determine in clinical trials. It is necessary, however, to study the distribution and in vivo behaviour of the product including cell proliferation and long-term function as well as the extent, distribution of the gene product and duration of the desired gene expression. Appropriate tests shall be used and, if necessary, developed for the tracing of the cell product or cell expressing the desired gene in the human body and for the monitoring of the function of the cells that were administered or transfected.

The assessment of the efficacy and safety of an advanced therapy medicinal product must include the careful description and evaluation of the therapeutic procedure as a whole, including special ways of administration, (such as transfection of cells ex vivo, in vitro manipulation, or use of interventional techniques), and testing of the possible associated regimens (including immuno-suppressive, antiviral, cytotoxic treatment).

The whole procedure must be tested in clinical trials and described in the product information.

3.2.2. Safety

Safety issues arising from immune response to the medicinal products or to the expressed proteins, immune rejection, immuno-suppression, and breakdown of immuno-isolation devices shall be considered.

Certain advanced gene therapy and somatic cell therapy medicinal products (e.g. xenogeneic cell therapy and certain gene transfer products) may contain replication-competent particles and/or infectious agents. The patient may have to be monitored for the development of possible infections and/or their pathological sequelae during pre- and/or post-authorisation phases; this surveillance may have to be extended to close contacts of the patient including health-care workers.

The risk of contamination with potentially transmissible agents cannot be totally eliminated in the use of certain somatic cell therapy medicinal products and certain gene transfer medicinal products. The risk can be minimised, however, by appropriate measures as described in Module 3.

The measures included in the production process must be complemented with accompanied testing methods, quality control processes and by appropriate surveillance methods that must be described in Module 5.

The use of certain advanced somatic cell therapy medicinal products may have to be limited, temporarily or permanently, to establishments that have documented expertise and facilities for assuring a specific follow up of the safety of the patients. A similar approach may be relevant for certain gene therapy medicinal products that are associated with a potential risk of replication-competent infectious agents.

The long term monitoring aspects for the development of late complications shall also be considered and addressed in the submission, where relevant.

Where appropriate, the applicant has to submit a detailed risk management plan covering clinical and laboratory data of the patient, emerging epidemiological data, and, if relevant, data from archives of tissue samples from the donor and the recipient. Such a system is needed to ensure the traceability of the medicinal product and the rapid response to suspicious patterns of adverse events.

4. SPECIFIC STATEMENT ON XENO-TRANSPLANTATION MEDICINAL PRODUCTS

For the purposes of this Annex, xeno-transplantation shall mean any procedure that involves the transplantation, implantation, or infusion into a human recipient of either live tissues or organs retrieved from animals, or, human body fluids, cells, tissues or organs that have undergone ex vivo contact with live non-human animal cells, tissues or organs.

Specific emphasis shall be paid to the starting materials.

In this respect, detailed information related to the following items shall be provided according to specific guidelines:

- Sourcing of the animals
- Animal husbandry and care
- Genetically modified animals (methods of creation, characterisation of transgenic cells, nature of the inserted or excised (knock out) gene)
- Measures to prevent and monitor infections in the source/donor animals
- Testing for infectious agents
- Facilities
- Control of starting and raw materials
- Traceability.