



Division Certification of Substances

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Certification of suitability of Monographs of the European Pharmacopoeia

Content of the dossier for chemical purity and microbiological quality

(Revision of Annex I Resolution AP-CSP (93) 5 as amended)

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Strasbourg

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CONTENT OF THE DOSSIER FOR A SUBSTANCE FOR CHEMICAL PURITY AND MICROBIOLOGICAL QUALITY EVALUATION

- 3 The Application Form Request for New Certificate of Suitability together with the relevant
- 4 annexes should be completed (available for download from the EDQM web-site
- 5 (http://www.edqm.eu).
- 6 Dossiers should be presented according to the CTD format (see The Rules Governing
- 7 Medicinal Products in the European Community Notice to Applicants for marketing
- 8 authorizations for medicinal products for human use in the member states of the European
- 9 Community, Volume 2B) as presented below except when justified.
- 10 References to guidelines are inserted to assist applicants. It remains the applicant's
- responsibility to ensure that all relevant legislation and guidelines, as revised or maintained, are
- respected in the application when applicable. The guidelines referenced in each section provide
- useful information on the content expected in that section. However, this list should not be
- regarded as comprehensive. The requirements of the general monographs Substances for
- 15 Pharmaceutical Use (2034), Products of Fermentation (1468) and Products with risk of
- transmitting agents of animal spongiform encephalopathies (1483) should be respected in the
- 17 application, when applicable.
- The applicant should also provide the Certification Secretariat of the EDQM with samples of 1
- or 2 representative commercial batches in sufficient quantity to perform a complete analysis
- 20 (normally about 10 g). Where applicable, samples of impurities are required where revision of
- 21 the monograph is requested and/or if an additional method(s) to limit the related substances is
- 22 (are) appended to the certificate for possible checking by the laboratory of the EDOM.
- 23
- 24 <u>Information about the Expert (1.4)</u>
- 25 The Expert's c.v. showing his/her experience in the concerned field should be given.
- 26 Quality Overall Summary (QOS) (2.3)
- A summary of the content of the dossier should be given in the form of a Quality Overall
- Summary (QOS)-(see The Rules Governing Medicinal Products in the European Community –
- 29 Notice to Applicants for marketing authorizations for medicinal products for human use in the
- member states of the European Community, Volume 2B). It is expected that the Quality
- Overall Summary (QOS) should discuss the ability of the European Pharmacopoeia monograph
- 32 to control the quality of the active substance, and in particular the declared potential impurities,
- or the necessity for alternative methods. Particular attention should be given to justifying cases
- where testing for possible impurities is omitted, for example due to the fact that the impurity
- has not been detected in any batches or will not potentially be present due to a particular
- method of production. The report should be signed and dated.

General information (3.2.S.1)

1 Commercialisation history of the substance:

- 2 Summarise the licensing history for medicinal products licensed in Europe that contain the
- 3 substance made by the defined method of manufacture naming the countries, products and
- 4 commercialisation dates. It should be made clear whether the products are for veterinary use.
- 5 Information on the Active Substance Master Files submitted to the National Licensing
- authorities should be supplied. This information should be given in the relevant sections of the
- 7 administrative form.

8 <u>Declarations</u>:

- 9 A signed declaration from the manufacturer that manufacture is conducted in accordance with
- the presented dossier and with a specified guideline on GMP should be supplied, preferably
- with the administrative form. The applied GMP should comply with Vol. 4 of the Rules
- 12 Governing Medicinal Products in EU and apply for each manufacturing step from the
- introduction of the starting materials (see Control of materials 3.2.S.2.3). If available a copy of
- 14 a GMP certificate should be supplied. Other approaches to GMP of similar standards are
- 15 acceptable, if justified.
- A signed declaration that the manufacturer is willing to be inspected, in accordance with the
- 17 relevant legislation, on the request of a relevant authority before and/or after being granted a
- certificate of suitability should be supplied. When the proposed holder is not the manufacturer
- 19 this declaration should also be provided by the proposed holder together with a declaration
- from the active substance manufacturer committing them to keep the proposed holder informed
- of any changes to the documentation so that this may be declared to the EDQM.
- Other parties may be mentioned on the certificate where relevant. If other parties are involved
- 23 in certain stages of the process, details of their involvement and of other site addresses must be
- 24 provided and information given on the contractual arrangements regarding sole or shared
- 25 responsibilities. If an additional site is to provide alternative capacity batch analysis results for
- 26 impurity profiles must be provided to demonstrate that the alternative arrangements yield
- 27 product of the same quality as that produced by the first site.
- When the manufacturer of the final substance performs only the purification of a crude
- substance supplied by a contract manufacturer that is a not a subsidiary of the manufacturer of
- 30 the final substance separate declarations on GMP and willingness to be inspected should be
- 31 provided for the contract manufacturer(s). This could also be the case for any other contract
- manufacturer that is not a subsidiary including laboratories.
- 33 A declaration on the use/non-use of material of animal or human origin during manufacture
- should be supplied. Where materials of animal or human origin are used in the process, this will
- be mentioned on the certificate. In this case, CEP holders and MA holders should be aware that
- viral safety data are to be submitted in the MA dossier. If material of animal origin which may
- 37 be susceptible to TSE contamination is used, compliance with the European Pharmacopoeia
- 38 monograph Products with risk of transmitting agents of animal spongiform encephalopathies
- 39 (1483) should be demonstrated as described in the document Content of the dossier for a
- 40 substance for TSE risk assessment (PA/PH/CEP (06) 2).

1 <u>Nomenclature (3.2.S.1</u>.1):

- 2 The European Pharmacopoeia monograph name, the INN, and other chemical name(s) should be
- 3 stated together with any laboratory code used in the dossier.

4 General properties (3.2.S.1.3):

- 5 In case more than one grade, in respect of physical characteristics, is produced, the manufacturer
- 6 may wish to submit one or more dossiers depending on whether or not separate certificates are
- 7 applied for. Examples are: compacted, special particle size, particular polymorphic form (where
- 8 the monograph does not restrict to one single polymorph). In any case the different qualities shall
- 9 comply with the general level of quality defined in the monograph. If more than one grade is
- described in the same dossier (i.e. only one certificate is asked for) the batch analysis results, in
- 11 respect of impurity profiles, should include all grades. It is optional to mention the different
- grades in the sub-title of the certificate (this should be made clear on the administrative form).
- However, the possibility for one certificate to cover different grades cannot be applicable when
- 14 these different grades require different specifications and/or methods for the control of
- impurities; in which case separate certificates will be needed and the relevant grades will be
- 16 mentioned in the sub-title of the certificate. For grades not described in the European
- 17 Pharmacopoeia the specifications describing the determination of the physical grade should be
- given with the used analytical method as well as the characterisation of the physical properties.
- In other cases the manufacturer may want to present individual dossiers for each grade with a
- view to obtaining separate certificates for each grade, which will also be mentioned in the sub-
- 21 title of the certificate (this should be made clear on the administrative form).

22 It should be noted that:

- As explained in the general monograph Substances for Pharmaceutical Use (2034) mixtures
- 24 that are manufactured from defined active substances or excipients are only acceptable if this is
- specifically stated in the definition of the individual monograph. Suitable test methods and limits
- for any additives should be provided.
- Acceptable claims regarding sterility/freedom from pyrogens and/or bacterial endotoxins should
- be indicated and reference given to the relevant test of the monograph (sterility/LAL/pyrogens)
- 29 and the method used for sterilisation should be identified and which will be stated on the
- 30 certificate. The document Certificates of suitability for sterile active substances
- 31 (PA/PH/CEP/T0(6) 13,1R) should be taken into consideration. It is only possible to introduce
- 32 grades for freedom from pyrogens and/or bacterial endotoxins on the CEP when the monograph
- foresees this. Separate files will be needed if both grades are produced (non-sterile and sterile,
- 34 apyrogenic/bacterial endotoxin-free and non-apyrogenic/endotoxin free substances).
- In the particular case where the monograph covers different grades of the substance (i.e. lactulose
- 36 liquid or sodium lactate solution, various per cent concentrations of dimeticone, viscosity) it is
- possible to mention different grades in the sub-title of the CEP if the concentrations/viscosity etc
- are within the range of the monograph and also if the monograph states that the label should
- 39 mention the particular grade.

1 Manufacture (3.2.S.2)

2 <u>Manufacturer(s) (3.2.S.2.1):</u>

- 3 If different sites/facilities are involved for a single defined process for manufacture and/or testing
- 4 this should be explained and it should be made clear which production step is conducted on
- 5 which site and the names and addresses of each of them should be given.

6 Description of manufacturing process and Process Controls (3.2.S.2.2):

- 7 Applicants are reminded that the requirements of the general monographs *Products of*
- 8 Fermentation (1468) and Products with risk of transmitting agents of animal spongiform
- 9 encephalopathies (1483) should be respected when applicable.
- 10 The following information should be supplied:
- An outline (flow chart, including the structural formula for the starting materials and all intermediates),
- The description of the manufacturing method should include all the steps of the process,
- proceeding from the starting materials(s) to any isolated intermediates, and ultimately to the
- 15 active substance.

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- Detailed description of each stage of the manufacture, including information on solvents and
- 17 reagents, catalysts, conditions of reactions, information on intermediates, which are isolated
 - and purified, quantities of all materials used in the process to produce a batch of the typical
- commercial size and yields for isolated intermediates should be indicated for each process
- step. Special emphasis should be given to the final steps including purification procedures.
- The maximum batch size for which the manufacturer has acquired experience with the
- defined method, and which should correspond to batches referred to in the dossier, should be
- stated. Where the substance has yet to be produced in commercial quantities (only pilot scale
- batches manufactured) the certificate can be granted provided scale-up is immediately
- 25 reported to the EDQM. For a sterile product, an application for a variable and/or alternative
- batch size should be justified.
- In case of semi-synthetically manufactured substances the fermented starting material should
- be well characterised, and the possibility of carrying impurities from the fermentation process
- to the final substance should be discussed. Each supplier should give a declaration on the
- 30 use/non-use of material of animal origin during manufacture of the starting material. Note
- that products obtained only by purification or salification of a fermented starting material
- cannot be considered as semi-synthetic products and should therefore be subject to the same
- requirements as true products of fermentation.
- Different manufacturing sites and different manufacturing methods or alternatives could be
- described in a single dossier provided that proof is given that for each case the specifications

- and the impurities profiles are exactly the same. If more than one manufacturer/facility is involved in manufacture, the responsibilities of each party should be clearly indicated.
- Whatever type of manufacturing process is used, alternatives are not allowed unless they are 3 clearly defined and detailed as part of 2nd, 3rd etc. processes. Batch analysis results 4 corresponding to the substance manufactured according to the different alternatives must be 5 provided to demonstrate that there are no significant differences in impurity profiles, which 6 may affect the specifications. If this provision is not met, the application will need revision to 7 delete one or more of the options, which results in a product that does not conform to the 8 'standard' profile. 'Deleted' options may be included in further applications for additional 9 10 certificates.
- If re-processing (i.e. re-application of a step already described in the process) is a possibility it should be mentioned and should be treated as a procedural option.
- Normally re-working (application of steps different from those of the process) is not acceptable
- since this implies the use of different solvents, which leads to a change in the specifications, and
- 15 /or impurity profile of the substance. A separate certificate application would therefore be
- necessary to cover material produced using such a procedure.
- Recovery (e.g. from mother liquors or filtrates) of reactants, intermediates or the final substance
- is considered acceptable provided that approved procedures exist for the recovery and the
- 19 recovered materials meet specifications suitable for their intended use. The specifications should
- be described. However, recovery of the substance without any further purification of the obtained
- substance according to the usual process should be considered as a re-working and is not
- 22 acceptable.
- 23 Blending of production batches of the final substance to obtain a larger size is acceptable
- 24 provided each batch incorporated into the blend is individually tested and found to meet
- specifications set for the final substance prior to blending.

26 Control of materials (3.2.S.2.3):

- 27 Appropriate specifications for raw materials and solvents should be supplied. If materials are
- recycled then justified specifications for the recycled materials should be supplied and it should
- 29 be made clear in which manufacturing step they are used. When a class 1 solvent could be
- 30 present in a solvent used during manufacture e.g. benzene in toluene a suitable limit and
- analytical method for its control should be introduced.
- 32 Applicants should propose and justify which substance(s) should be considered as the starting
- material(s). They should be fully characterised and complete specifications should be provided
- 34 including an impurities profile. The possibility that impurities present in the starting material
- may be carried through the process unchanged or as derivatives should be discussed and if
- 36 relevant be controlled in starting material by appropriate acceptance criteria. A description of
- analytical controls applied to ensure the quality of the starting materials should be given.
- 38 Relevant viral safety and/or TSE data should be provided if any animal derived material is used
- 39 during the manufacturing process. Starting materials from vegetable origin should be fully
- 40 characterised to ascertain suitability, and a contaminant profile should be established and
- 41 submitted.

- 7
- In the case of a route of synthesis consisting of one or only a few steps, full details of the
- 2 manufacture of the starting material(s) should be given and/or at least detailed specifications
- 3 especially regarding the impurity profile including residual solvents and catalysts. Alternatively,
- 4 for starting materials described in the European Pharmacopoeia certificates of suitability can be
- 5 provided, if available.
- 6 The supplier(s) of the starting materials(s) should be declared and where more than one
- supplier is used batch analysis results from the substance manufactured from the different
- 8 suppliers should be given.
- 9 Controls of critical steps and intermediates (3.2.S.2.4);
- Any critical steps should be identified. Tests and acceptance criteria performed at the critical
- steps should be provided. In-process controls should be described. Information on the quality
- and control of intermediates isolated during manufacture should be provided.
- 13 Process validation and/or evaluation (3.2.S.2.5);
- Process validation and/or evaluation studies shall be provided as appropriate. In particular,
- 15 sterilisation processes including filtration and aseptic processing should be validated.
- Therefore, when a request to mention sterile in the sub-title of the certificate is made validation
- data should be presented in the dossier. European Pharmacopoeia General text 5.1 should be
- taken into consideration. In addition, a full description of the sterilisation process is required,
- including for sterilisation by filtration, the maximum acceptable bio-burden prior to the
- sterilisation, the type of microbial retentive filter used and its pore size (pore sizes of 0.22 µm
- or less are acceptable without further justification), any in-process controls (i.e. filter integrity)
- as well as the method(s) of sterilisation of the primary packaging material. CEP holders and
- MA holders should be aware that when the active substance is used after sterilisation as a
- 24 medicinal finished product e.g. sterile powder distributed in sterile packaging, the sterilisation
- of the active substance will be considered as an intrinsic part of the manufacturing process of
- the medicinal product. Consequently, full data must be provided in the application file for a
- 27 medicinal product or by the licensing authority requesting the assessment report from the
- 28 EDQM.
- When the monograph indicates specific additional requirements for the manufacturing process
- 30 (i.e. in the production section of the monograph) compliance to this aspect should be
- demonstrated when reference to a specific test(s) is given. For biological substances (such as
- 32 heparin sodium), and even if a specific microbial grade is not requested to be mentioned on the
- certificate (sterile, endotoxin free, ..), the dossier should include information demonstrating
- suitable inactivation and/or removal of any infectious agent.
- 35 Elucidation of Structure and other Characteristics ((3.2.S.3.1)
- 36 Impurities (3.2.S.3.2)
- 37 Related substances:
- 38 The requirements of the related substances section of the general monograph Substances for
- 39 Pharmaceutical Use (2034) and the guideline Control of impurities of pharmacopoeial

- substances (CPMP/QWP/1529/04) should be met. It should be demonstrated that all applied 1
- methods are suitable to control impurities at the applicable levels set by the general monograph. 2
- 3 Furthermore the provisions of the general chapter Control of impurities in substances for
- pharmaceutical use (5.10) are to be taken into consideration. 4
- Possible impurities originating from the route of synthesis or from degradation should be listed 5
- and discussed with an indication of their origin (starting material, reagent, solvent, catalyst, 6
- intermediate, degradation product). The impurities that are controlled should be presented 7
- together with details of the analytical methods used, and a list of the related substances found in 8
- 9 the substance. The related substances found in batches of the active substance should be
- compared with the related substances listed in the transparency statement of the monograph 10
- (where one exists) together with their typical levels and the proposed limits. 11
- The suitability of the method(s) of the monograph to control the quality of the substance 12
- must be discussed and demonstrated. In particular, where additional impurities (i.e. those not 13
- listed in the transparency statement of the monograph) are found above the relevant reporting 14
- threshold and disregard limit of the monograph it must be demonstrated whether the monograph 15
- controls them and where applicable retention times or Rf values and limits of detection and/or 16
- quantification should be provided. If the monograph does not control the additional impurities, 17 suitably validated sadditional test(s), should be proposed. Evidence should be given of the 18
- absence of impurities not routinely tested for in the product or its intermediates. 19
- Chromatograms for production batches of the substance suitably zoomed and annotated and with 20
- peak area results should be supplied. 21
- Where additional related substances are present (those not already mentioned in the monograph) 22
- they should be considered according to the related substances section in the general monograph 23
- Substances for Pharmaceutical Use (2034) (which corresponds to the requirements of the ICH 24
- note for guidance Impurities in New Drug Substances CPMP/ICH/2737/99). Suitable limits 25
- should be set which should be justified. In particular, where present above the relevant 26
- identification threshold they are identified and when present above the relevant qualification 27
- threshold they should be qualified. Alternatively, and where appropriate, it may be demonstrated 28
- by other means that the impurity profile (number, nature, amount) of the substance is comparable 29
- to that of products already on the market. For active substances excluded from the requirements 30
- on related substances of the general monograph Substances for Pharmaceutical Use (2034), and 31
- which contain additional impurities, qualified limits should be proposed and where necessary 32
- toxicological data should be supplied. 33
- In the case of particularly toxic impurities, the determination of acceptable levels is a critical 34
- issue to be documented. The EMEA CHMP Guideline on the Limits of Genotoxic Impurities 35
- (EMEA/CHMP/QWP/251344/2006), effective as of 01 January 2007, is applicable to new 36
- applications for existing active substances in conditions described in the scope of the guideline. 37
- A specific discussion as part of the overall discussion on impurities should be provided with 38
- regard to impurities with potential genotoxicity. If a genotoxic impurity is liable to be present in 39
- the substance then conformity to the requirements of the guideline should be demonstrated in the 40
- CEP application file. 41
- In discussing possible degradation products, reference to data from real time stability studies or 42
- from stress testing or reference to the literature may be helpful. However, results from formal 43
- 44 stability studies are not a requirement when there is no request to mention a retest period on the
- certificate. 45

- If alternative routes of synthesis are described the possible impurities are discussed separately for
- 2 each route.

3 Other impurities:

- 4 Residues of residual toxic reagents should also be discussed and where applicable a suitable limit
- 5 and test method proposed if the monograph does not provide a suitable test.
- 6 Residues of acids or bases that are not mentioned in the ICH guideline for residual solvents (e.g.
- 7 HCl, organic acids) should also be discussed if the monograph does not provide a suitable test
- 8 (pH, acidity or alkalinity).
- 9 Concerning residual triethylamine, a permitted daily exposure (PDE) of 3.2 mg/day giving a
- limit of 320 ppm (for a 10 g daily dose) was calculated from repeated Dose Toxicity and
- Reproductive Toxicity data. This limit of 320 ppm should therefore be used as a reference
- limit. Higher limits should be justified by batch analysis data and the maximum daily dose of
- the concerned substance. It should be noted that this limit is not immediately applicable to other
- organic bases for which limits should be calculated on available toxicological data.

15 Residual solvents:

- The European Pharmacopoeia general chapter 5.4 Residual Solvents is to be applied. In addition,
- 17 the Annexes to: CPMP/ICH/283/95 Impurities: Guideline for Residual Solvents &
- 18 CVMP/VICH/502/99 Guideline on Impurities: Residual Solvents Annex I: Specifications for
- 19 class 1 and class 2 residual solvents in active substances (CPMP/QWP/450/03,
- 20 EMEA/CVMP/511/03) should be taken into consideration when setting specifications.
- As indicated in the general chapter class 1 solvents should not be employed in the manufacture
- of active substances or excipients unless there is a benefit/risk justification, which should be
- 23 provided. The final decision on the acceptability of the use of a class 1 solvent during
- 24 manufacture will be taken by the Technical Advisory Board.
- 25 If class 2 solvents are only used in a step of the manufacturing process prior to purification, the
- absence of such solvents in the final product should be demonstrated to justify the exemption of
- 27 a test. Otherwise a suitable specification should be introduced. Toxic solvents (Class 1 and 2)
- should always be limited using a specific test, e.g. the test described in the general methods of
- 29 the European Pharmacopoeia.
- 30 Any limit higher than the ICH option 1 limit should be justified according to an option 2
- calculation, i.e. based on the daily dose (for class 2 solvents only).
- Low toxic solvents (Class 3) can be limited by a test for Loss on drying with a limit of not more
- than 0.5%. For solvents used in previous steps and absent or at a low level their control may be
- omitted. If the limit in the loss on drying test of the monograph is more than 0.5%, or it is not
- 35 possible to introduce a loss on drying test, a specific test for residual solvents should be
- 36 introduced.
- For solvents not listed in the general chapter or listed in table 4 of the general chapter and which
- need to be mentioned on the certificate toxicological justification of the proposed limits should
- 39 be supplied.

- Solvents to be controlled will be mentioned on the certificate with the relevant test(s) and limit(s)
- 2 (except those mentioned in the specific monograph).

3 Residual catalysts:

- 4 Where catalysts are used in manufacture satisfactory information to demonstrate that there is no
- 5 entrainment of metal catalysts should be supplied. If there is carry over a suitable and justified
- 6 control limit should be proposed together with a validated method for determining the residual
- 7 catalyst.

8 Control of Drug substance (3.2.S.4)

9 Specification (3.2.S.4.1):

- The specifications should be in accordance with the current general and specific European
- Pharmacopoeia monographs. Where the monograph has been shown not suitable to control the
- quality of the substance, and in particular the related substances, the additional analytical
- methods should be identified. Any additional specifications to those of the monograph shall be
- 14 justified.
- Where the monograph includes a production section the requirements of this section should be
- respected in the application dossier.

17 <u>European Pharmacopoeia monograph under revision:</u>

- 18 If the monograph is in the process of being revised, the draft monograph will be taken into
- 19 consideration during evaluation since the current monograph is viewed as insufficient and
- therefore the manufacturer may also wish to take it into consideration in the application dossier.
- However, application of the revised monograph is not mandatory before the implementation
- 22 date.

23 Analytical procedures (3.2.S.4.2):

- 24 If specifications and test methods other than those described in the monograph concerned of the
- 25 European Pharmacopoeia are used, they must be fully described and validated (see below). They
- 26 would be appended to the certificate only if shown to be needed as supplementary to those of the
- 27 monograph (which are shown insufficient). Monographs describing a TLC method to control
- related substances are generally not considered to comply with the requirements of the general
- 29 monograph Substances for Pharmaceutical Use (2034) and general chapter 5.10 Control of
- 30 impurities in substances for pharmaceutical use and therefore a quantitative method should be
- proposed by applicants to control the related substances liable to be present in the substance.
- 32 This method would then be appended to the CEP. The TLC method would be accepted in rare
- cases only i.e. as only rarely are the requirements of the general monograph on Substances for
- 34 Pharmaceutical Use and the general chapter 5.10 Control of impurities in substances for
- 35 pharmaceutical use satisfied by a TLC method. It would also be acceptable in cases where a
- 36 particular related substance is controlled by a TLC method but a quantitative method is also
- described in the monograph to control related substances.

- 1 To facilitate the preparation of the certificate a separate description of any supplementary tests
- 2 should be presented.

3 <u>Validation of analytical procedures (3.2.S.4.3):</u>

- 4 If purity testing methods other than or supplementary to those of the European Pharmacopoeia
- 5 are used the analytical validation should be supplied. Where the official method of control of
- 6 related substances is used, and it is declared that only those related substances listed in the
- 7 transparency statement of the monograph are present in their substance, it should be
- 8 demonstrated that no other impurities are detected. Typical chromatograms should be presented
- 9 together with the characterisation of the reference substance(s). Where additional or alternative
- methods are used in quality control of the final substance they should be adequately validated
- and/or cross validated with reference to the monograph's method(s) using Ph. Eur. CRS where
- prescribed. Where appropriate typical chromatograms should be available.
- 13 If an additional method is exactly as described in the general methods of the European
- Pharmacopoeia (i.e. general method 2.4.24 for residual solvents) a full validation is not required
- but the method should be described and only applicability to the concerned substance should be
- demonstrated. For the determination of residual solvents the method of sample preparation and
- the used system (A or B) should be specified. Methods from a specific monograph of another
- Pharmacopoeia do not have to be fully validated (though specificity and level of detection and/or
- 19 quantification should be calculated). If the method of the specific monograph is used to control
- additional impurities a minimum validation should be done (specificity and limits of detection
- 21 and quantification).

22 <u>Batch analyses (3.2.S.4.4):</u>

- To be able to re-evaluate the monograph of the European Pharmacopoeia the results of a full
- testing of at least two batches will be given. Results below 1.0 % for related substances should
- be reported with two decimal places e.g. 0.25 %. When different grades, methods of
- 26 manufacture or alternatives or different sites are described in the dossier, the results of the
- 27 analysis of the batches shall be provided for each of them. The batch size, and the date of
- manufacture and analysis will be given. The results of the analysis are given as actual figures
- whenever possible instead of statements such as "conforms", "complies" etc
- 30 The batch size should be in accordance with the declared maximum batch size as specified in the
- description of the manufacturing process.
- 32 The results submitted should be discussed in relation to the limits of the European
- 33 Pharmacopoeia monograph and possible supplementary tests.

34 <u>Justification of specification (3.2.S.4.5)</u>

- 35 It should be stated if supplementary or improved tests are needed. Any additional specifications
- or deviations should be justified. The possible need for a revision of the European
- 37 Pharmacopoeia monograph should be discussed.

38 Omission of tests:

- Where the monograph mentions a test for a named impurity (metal catalyst/reagent/solvent) but 1
- which is not used during manufacture, the manufacturer may omit the test in the specifications 2
- 3 which should be made clear in the dossier. If the proposal of the applicant is accepted, a clear
- statement on this subject will be reported on the CEP. However, the substance should comply 4
- 5 with the monograph, if tested.

Reference standards or materials (3.2.S.5) 6

- When in-house standards/working standards, non-official or official standards other than the 7
- appropriate Ph. Eur. CRS are employed, they have to be suitably described (in terms of 8
- identification, purity, assay, etc) and their establishment has to be demonstrated. If other 9
- standards are used instead of their respective Ph. Eur. CRS an appropriate comparison to the Ph. 10
- Eur. CRS is required. 11

Container closure system (3.2.S.6) 12

- The container closure–system should be described and the specifications (including description 13
- and identification) should be supplied. Where relevant conformity to the note for guidance 14
- Plastic Primary Packaging Materials (CPMP/QWP/4359/03) should be shown. The 15
- compatibility with the requirements of the storage section of the specific monograph (e.g. for 16
- 17 airtight containers) should be demonstrated.

Stability (3.2.S.7)

18

- As stated in the note for guidance Stability testing of existing active substances and related 19
- finished products (CPMP/QWP/122/02) for substances described in an official Pharmacopoeia 20
- 21 monograph which covers the degradation products, results from formal stability studies are not
- necessarily required. However, when a retest period is requested to be mentioned on the 22
- certificate (which should be made clear on the administrative form) it should be determined in 23
- accordance with Stability testing of existing active substances and related finished products 24
- (CPMP/QWP/122/02 Rev 1) and the Annex: Declaration of Storage Conditions for Medicinal 25
- Products Particulars and Active Substances (CPMP/QWP/609/96 Rev. 1)). Results from 26
- stability studies justifying the requested retest period and in accordance with the note for 27
- guidance shall be supplied. In accordance with this note for guidance results from accelerated
- 28
- stability studies should be supplied when a retest period is to be mentioned on the certificate. In 29 addition to the retest period, the commercial packaging material and where necessary storage 30
- conditions, will also be stated on the certificate. If no request to mention a retest period on the 31
- certificate is made stability data may still be submitted in particular to support the discussion on 32
- impurities and which should be summarised. 33

Post-approval Stability Protocol and Stability Commitment (3.2.S.7.2); 34

- A re-test period may be attributed based on extrapolation proposed by the applicant under the 35
- conditions described in the NfGs Stability testing of existing active substances and related 36
- finished products (CPMP/QWP122/02 revision 1) and Evaluation of Stability Data 37
- (CPMP/ICH/420/02). In this case, and also when the retest period has been based on data 38
- obtained on pilot batches, the manufacturer will be asked to supply the complementary and/or 39
- additional stability data when available. 40