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product is considered to have been 'placed on the market' on one of the following takes: A batch has been Qualified Person (QP) certified and made available for sale on the stock management system of the pre-wholesaler/primary wholesaler, etc.A batch has been QP certified and supplied to a facility where the manufacturer has no further control over when the product is transferred to saleable stock. This definition covers the entire distribution chain from all points following manufacture through to the end user, the patient. Commission Directive 2001/20/EC defines an IMP as 'a pharmaceutical form of an active substance or placebo being tested or used as a reference in a clinical trial, including products already with a marketing authorisation but used or assembled (formulated or packaged) in a way different from the authorised form, or when used for an unauthorised indication, or when used to gain further information about the authorised form.'An active substance would be considered an IMP if presented in a packaged form for use in a clinical trial. The active substance in my product is widely used, but not normally as a pharmaceutical active substance, and I am having some difficulty in confirming compliance. The following aspects should be considered when determining risk and control measures:How / where is data stored:Storage of data (paper or electronic) should be at secure locations, with access limited to authorised persons. An inspection of the active substance manufacturer by an EEA authority does not liberate a MA holder from this responsibility.Article 111 (1f) of Directive 2001/83/EC and Article 80(1) of Regulation (EU) 2019/6, have provision for the competent authority of the Member State concerned to carry out inspections of starting material manufacturers at the specific request of the manufacturer. This document states that it is expected that manufacturing-authorisation holders will normally gain assurance that the active substances it uses are manufactured in accordance with GMP through audit of the active-substance suppliers.In addition, a number of questions and answers on audits of active-substance manufacturers on this page provide further guidance. This is not the case for simple valves, which mostly have only a serial number corresponding to a group of valves. The design of integrated valves, which are medical devices, is complex. 2.Until the specific GMP for veterinary medicinal products and active substances used as starting materials referred to in Article 93(2) of the Regulation (EU) 2019/63 (the Veterinary Medicines Regulation) are adopted, the Part II of the Good Manufacturing Practice Medicinal Products for Human and Veterinary Use on Basic Requirements for Active Substances used as Starting Materials, as well as relevant annexes, applies.4.1 For the purposes of this document, reference to the Union should be understood as including also the EEA countries.2 Directive 2001/82/EC of the European Parliament and of the Council on the Community code relating to veterinary medicinal products (OJ L 311, 28.11.2001, p. This is a data integrity risk. They should be suitably checked for accuracy and reliability (annex 11 p7.1). For example, high temperatures during the process may cause the filter to distort, potentially leading to fluid pathways that allow the passage of particles greater than 0.2 µm in size. Corrective and preventative actions and timescales for completion should be assessed by the auditors to establish whether these are appropriate to the findings. Thus the legislation puts the responsibility on the manufacturing-authorisation holders using the active substance and does not foresee mandatory routine inspections of active-substance manufacturers.To provide guidance on how GMP compliance of active-substance manufacturers should be established, guidance documents have been published on this website, including the 'guidance on the occasions when it is appropriate for competent authorities to conduct inspections at the premises of manufacturers of active substances used as starting materials' as part of the Community procedures. This should normally provide sufficient assurance that the results of an audit carried by the third party are credible, thus waiving the need for an audit conducted by the manufacturing-authorisation holder itself. Paper records should be protected from amendment, or substitution. Thus, when a starting material manufacturer applies for a voluntary inspection, this does not constitute an obligation for the competent authority to trigger an inspection. In terms of risk, more serious incidents have been reported with cylinders having this type of valve. Therefore:in the case of simple valves, the type of valve should be recorded, as well as the name of the manufacturer and the serial number, if one is available;in the case of integrated valves, traceability should be ensured for each valve. The review of the raw electronic data should mitigate risk and enable detection of data deletion, amendment, duplication, reusing and fabrication which are common data integrity failures.Example of an inspection citing:Raw data for HPLC/GC runs which had been invalidated was stored separately to the QC raw data packages and had not been included in the review process.In the above situation, the procedure for review of chromatographic data packages did not require a review of the electronic raw data or a review of relevant audit trails associated with the analyses. In these cases, the development life-cycle is mainly controlled by the vendor. Individual traceability is therefore possible. The relevant authority may agree to this when one or more of the following criteria are met:Parallel imported/distributed medicinal products will not be granted an exemption from keeping a fully packaged unit if the products have been re-packaged. This is because the exemption refers to "duplicate samples", and in these cases no reference sample is required to be kept by the parallel distributor/importer.On the other hand, where the secondary packaging of the source product is not opened by the parallel importer/distributor only samples of the additional packaging material used needs to be retained. In practice, this can present difficulties for manufacturers located in third countries.For sites located in third countries the GMP non-compliance statement may mean that the site is no longer listed in marketing authorisations or applications and therefore there will be no reason for a new EU inspection. Compliance with this requirement will be verified during GMP inspections. / Does Annex 16 permit QP certification of more than one batch affected by the same unexpected deviation?In order to satisfy the criteria in Annex 16 section 3 for handling unexpected deviations, all registered specifications for active substances, excipients, packaging materials and medicinal products must be met.Registered specifications for medicinal products include in-process, bulk and finished product specifications which have been included in the MA application.The criticality of registered in-process specifications may vary depending on the quality attribute tested, the impact to subsequent manufacturing processes and ability to test the quality attribute in the finished product. The level of review of the full electronic batch record can vary based on the exceptions as well as the level of confidence and experience with a particular process. The Agency does not perform inspections. A justification should be recorded for the duration of the audit. GMP inspections of active-substance manufacturers can be requested by EDQM in the context of the CEP certification scheme. In situations where metadata (including relevant operating system event logs) are stored in different file locations from raw data, the back-up process should be carefully designed to ensure that all data required to reconstruct a record is included.Similarly, 'true copies' of paper records may be duplicated on paper, microfilm, or electronically, and stored in a separate location.What are ownership / retrieval arrangements, particularly considering outsourced activities or data storage?A technical agreement should be in place which addresses the requirements of Part I Chapter 7 and Part II Section 16 of the GMP guide. Points to consider regarding data critically include:What decision does the data influence?For example: when making a batch release decision, data which determines compliance with critical quality attributes is of greater importance than warehouse cleaning records.What is the impact of the data to product quality or safety?For example: for an oral tablet, active substance assay data is of greater impact to product quality and safety than tablet dimensions' data. It is recognised that for a small number of medicinal products, the primary use of the active substance is not in a medicinal product and the producer may therefore not be aiming to meet the specific requirements of pharmaceutical customers that represent an insignificant volume of business.Alternative sources should normally be sought, but in exceptional cases the manufacturing-authorisation holder should assess and document to which extent GMP is complied with and provide a risk-based justification for the acceptance of any derogation.The declaration provided by the QP should set out in detail the basis for declaring that the standards applied provide the same level of assurance as GMP. As long as this functionality is not supported by the supplier, it may be acceptable to describe in a procedure the fact that a print-out of the related audit trail report must be generated and linked manually to the record supporting batch release. If this is not the case, any EEA authority can be approached.There is no guarantee that such a request will be fulfilled since competent authorities primarily use risk-based principles to plan inspections. This approach facilitates a risk-based review of the record, and can also reduce administrative burden for instance utilising validated audit trail exception reports' instead of an onerous line-by-line review.Are there any periods of time when data is not audit trailed.This may present opportunity for data amendment which is not subsequently visible to the data reviewer. The corresponding master documents should be approved and controlled electronically or in paper versions. The COA provided with the glycerol raw material may have been a copy of the original on a distributor letterhead. If the supervisory authority is not able to carry out the inspection for any reason, it can be delegated to another EEA competent authority.If there is a mutual recognition agreement (MRA) in place between the countries where the site is located and the European Community, the results of GMP inspections carried out by the MRA partner authority are normally recognised by the EU authorities. Medicinal products that are relabelled or repacked with the purpose of parallel trade should be in compliance with any specific national legislation or guidance in relation to the batch number(s) that are to be present on the parallel distributed traded packs.In the absence of specific national legislation or guidance, the outer packaging should have only one batch number, as allocated by the parallel trader. Competent authorities expect product manufacturers to routinely ensure that incoming samples of glycerol are tested according to the European Pharmacopoeia monograph.The European Pharmacopoeia monograph for glycerol includes a specific limit test for diethylene glycol (0.1%). The cylinder is the combination of the shell and its valve.ShellFor safety reasons, shells are individually identified (specific reference). The document 'guidance on the occasions when it is appropriate for competent authorities to conduct inspections at the premises of manufacturers of active substances used as starting materials', published as part of the Community procedures, states that it is expected that manufacturing-authorisation holders will gain assurance that the active substances they use are manufactured in accordance with GMP through audit of the active-substance suppliers. The following expectations should be considered where appropriate, based on data risk and criticality:enable traceability issuance of the blank form by using a bound logbook with numbered pages or other appropriate system. The excipient is required to comply with the current European Pharmacopoeia glycerol monograph), and as the specification approved in the dossier will have been that of the European Pharmacopoeia, the risk of DEG contamination will have been appropriately controlled. However, as before, the QP performing final certification before release holds overall responsibility for manufacture of the batch in accordance with GMP and the marketing authorisation. In practice, depending on the scale of operation, it may be difficult to ensure effective traceability without a computerised system. Routine monitoring, however, should continue to be carried out in accordance with the existing Annex 1. The sponsor has the ultimate responsibility for all trial activities performed at the investigator site, but should seek the advice of the QP of the IMP manufacturer, if possible, or the clinical-trials pharmacist at the investigator site regarding:adequacy of premises and equipment (storage conditions etc.)adequacy of written standard operating procedures;training of personnel involved, both on GMP requirements and any protocol specific requirements for the IMPs;written instructions to perform activities;forms to document the activities carried out;checks to be done;keeping of retention samples;record-keeping. The respective responsibilities of the sponsor, manufacturer, importer and, where used, distributor should be defined in a technical agreement. The EEA inspectorates are not generally in favour of 'paper-based audits' per se as they do not provide the same level of assurance as on-site assessments, but do accept that they have a part to play in a risk-based strategy. They may be particularly applicable when recent positive inspection information is available and where satisfactory audits have been concluded in the past. Hence, any GMP certificate appearing in the database is mutually recognised and the database authenticates the certificate.If a certificate cannot be found in the database, the issuing authority should be contacted. Small manufacturers may not have the necessary expertise or resource to conduct their own audits.Section 5.25 of the GMP guideline requires starting materials to be purchased from approved suppliers and about whom the manufacturer has a particular and thorough knowledge.An audit conducted by the manufacturing-authorisation holder itself should be integral to the manufacturer's quality-assurance system and subject to the basic GMP requirements, i.e. conducted by properly qualified and trained staff, in accordance with approved procedures. This may also include elements of the Data lifecycle discussed in Q3-Q9. Other incidents have been reported in Argentina, Bangladesh, India and Nigeria and attributed to the deaths of hundreds of children. In situations where the MAH can demonstrate that the batch is reconciled without issuing a recall notice, the national competent authority may agree that public recall communication throughout the distribution network is not necessary. It is acknowledged that certain short expiry products (e.g. radiopharmaceuticals, advanced therapy medicinal products, etc.) may be shipped under quarantine prior to certification. Generally speaking, the supply chain for glycerol tends to be complex and lengthy. The main reasons for this are:patients and healthcare professionals may mistakenly believe that there has been a packaging error;hospitals often remove products from the outer packaging and traceability may therefore be lost;confusion may occur in the case of recall, rendering such action potentially ineffective.It is accepted that there may be exceptional cases where multiple batch numbers are displayed on a pack, such as in combination product packages. The application of critical thinking skills is important to not only identify gaps in data governance, but to also challenge the effectiveness of the procedural and systematic controls in place.Segregation of duties between data lifecycle stages provides safeguards against data integrity failure by reducing the opportunity for an individual to alter, mis-represent or falsify data without detection.Data risk should be considered at each stage of the data lifecycle review. Article 94(1) to (3) of the Veterinary Medicines Regulation describes the procedure to issue a GMP certificate, after a successful inspection has been conducted. Notification to competent authorities should typically take place within one working day of confirmation that reporting is required.In cases where a suspected quality defect involves multiple manufacturing sites, reporting responsibilities should be defined in a technical agreement. The following aspects should be considered when determining risk and control measures:How and where is original data created? (i.e. paper or electronic)What metadata is associated with the data, to ensure a complete, accurate and traceable record, taking into account ALCOA principles. Normally, such an approach should be avoided as each batch is made from the same initial quantity of material and should remain as an individual batch of finished medicinal product bearing a unique batch number. This implies that for any active-substance manufacturer that performs sterilisation and subsequent aseptic handling of the active substance, a valid manufacturing authorisation or GMP certificate from an EEA authority or from an authority of countries where MRA or other Community arrangements apply has to be submitted.The active-substance manufacturer also has to submit data on the sterilisation process of the active substance (including validation data) to the marketing-authorisation applicant or holder for inclusion in the dossier submitted for the finished product and approval by the licensing authorities. In application dossiers for new marketing authorisations (MAs), or in case of relevant variations for existing MAs (for example, replacement of an excipient with glycerol) for medicinal products containing glycerol, confirmation of the tests applied on receipt of batches of glycerol to control the risk from potential DEG contamination in relation to the specific intended use of the product should be provided. It requires participation and commitment by staff at all levels within the company, by the company's suppliers and by its distributors.Senior management should ensure that data integrity risk is assessed, mitigated and communicated in accordance with the principles of quality risk management. At minimum the following items need to be addressed:requirement definition for the intended use including process limitations. Factors to consider include:Process complexityProcess consistency, degree of automation /human interfaceSubjectivity of outcome / results the process open-ended or well defined.This ensures that manual interfaces with IT systems are considered in the risk assessment process. Computerised systems should be reviewed periodically to confirm that they remain in a validated state. For example, audits should be conducted by the supervisory authority. Directive 2001/83/EC as amended (Directive 2001/82/EC for veterinary medicinal products) states that manufacturing-authorisation holders are obliged to use, as starting materials, only active substances that have been manufactured in accordance with the detailed guidelines on GMP for starting materials. This point is acknowledged and currently, alternative tests are under consideration with a view to work up a possible change to the identity tests in the monograph. A vendor certificate or equivalent detailing the testing performed by the vendor may also be included:calibration certificate, if applicable;validation plan according to the risk-assessment results;verification testing proving that the device fulfills the requirements for the intended use. Article 94(4) of the Veterinary Medicines Regulation (in conjunction with Article 2(2) thereof) encompasses both manufacturing sites of finished veterinary medicinal products and manufacturing sites of active substances used in veterinary medicinal products. It follows that national competent authorities, the Agency, or the European Commission can request an inspection of a manufacturer of active substance used as a starting material, including third country manufacturers. These inspections may be carried out:As part of the registration of manufacturers of active substances established in the Union (Article 95);in the scope of the regular risk based verifications to manufacturers/importers of veterinary medicinal products and manufacturers/importers of active substances. Article 123(1) of the Regulation requires competent authorities to carry out controls of both importers of manufacturers/importers of veterinary medicinal products and manufacturers/importers of active substances. Those controls should be carried out regularly, in accordance with a risk-based approach, taking into account at least:the intrinsic risks associated with the activities of the site and the location thereof;the past record as regards the results of controls performed on the sites and previous compliance;any information that might indicate non-compliance;the potential impact of non-compliance on public health, animal health, animal welfare and the environment. The following aspects should be considered when determining risk and control measures:When is the pass / fail decision taken;Data acceptability decisions are taken before a record (raw data or processed result) is saved to permanent memory, there may be opportunity for the user to manipulate data to provide a satisfactory result, without this change being visible in audit trail. Inspectors may need to see audit reports during inspections as part of the assessment of the manufacturing-authorisation holder's systems for confirming GMP compliance of active substance manufacturers or suppliers. Retrieval of batches during this quarantine period may be managed within the pharmaceutical quality system. It is important to review all data access opportunities, including IT helpdesk staff, who may make changes at the request of the data user. In principle, a GMP non-compliance statement can only be lifted following a new inspection by an EU authority that results in the issue of a GMP certificate. The request for the inspection should be made to the EEA competent authority where the site is located or, in case of sites located in third countries, to a competent authority where the starting material is used in the manufacture of medicinal products. EU GMP principles and guidelines are laid down in Directive 2003/94/EC (human medicines) and Directive 91/412/EEC (veterinary products). Update to January 2019: This Q&A has been superseded by the Guideline on the sterilisation of the medicinal product, active substance, excipient and primary container. From the perspective of the regulated industry, the implementation of such a device is driven by an implementation life-cycle. They are carried out on its behalf by the national competent authorities of the member states of the EEA, in connection with products under the centralised marketing-authorisation procedure. In the event that abnormal disruption in supply may result from a contractor compliance situation, relevant regulatory authorities should be consulted in this regard. This should be documented and must be kept current. The revision provides updated guidance on:classification of the environmental cleanliness of clean rooms;guidance on media simulations;guidance on capping of vials;bioburden monitoring prior to sterilisation. The European Medicines Agency issues CMPs on behalf of the European Commission for centrally authorised products.CMPs are issued in the context of the World Health Organization certification scheme on the quality of pharmaceutical products moving in international commerce, to confirm the marketing-authorisation status of the products. All actors in the supply chain play an important part in overall data integrity and assurance of product quality.Data governance systems should be implemented from the manufacture of starting materials right through to the delivery of medicinal products to persons authorised or entitled to supply medicinal products to the public.Relative responsibilities and boundaries should be documented in the contracts between the relevant parties. Also, it is possible that the MAH or its subsidiaries are actors in the supply chain, acting as the distributor in certain cases. Where the relevant authorities have confirmed the need to avoid supply disruption, repeat deviations thereafter are no longer 'unexpected' and may be considered for QP certification and accepted while corrective and preventive action is in progress and where the provisions of Annex 16 paragraph 3.1 are met.Planned deviations or deviations that are caused by incorrect communication between marketing authorisation holder (MAH) and manufacturers (e.g. if the MAH fails to notify the manufacturer of relevant changes to the MA) are outside the scope of the paragraph 3.1. The marketing authorisation holder should submit an application for a variation to the marketing authorisation, if needed.Does Annex 16 permit QP certification of more than one batch affected by the same unexpected deviation?If more than one batch has already been manufactured and/or tested at the time of discovery of the unexpected deviation, then it is acceptable to consider QP certification of all these batches under the provisions of Annex 16 section 3.Following discovery, repeated deviations from the manufacturing process and/or analytical control methods should be considered changes, and variations to the affected marketing authorisations must be submitted. Data integrity should be ensured by suitably implemented and risk-assessed controls. The European Pharmacopoeia DEG limit test remains the official method for confirmation of compliance with the monograph. It may be equivalent to a PQ-phase.Small manufacturing devices are sometimes only equipped with microprocessors and firmware and are not capable of high-level administration functions. The summary should include whether the auditor regards the actions as satisfactory. What should I do to furnish the required declaration? Importers are manufacturing-authorisation holders and so the obligations under Article 46f/50f of Directive 2001/83(2) apply to them. The calculations and the files should be secured in such a way that formulations are not accidentally overwritten. Suspected product quality defects (e.g. product deterioration, packaging mix-up, among others) should be reported to the competent authority with responsibility for the manufacturing site (or importer where the manufacturer is located outside the EEA), and to the competent authority in each EEA market supplied. Manufacturing sites of veterinary medicinal products must have an EU GMP certificate, regardless of whether they are located in the Union or outside. Specifically, Article 94(5) of the Veterinary Medicines Regulation requires that importers of veterinary medicinal products ensure that any manufacturing site of such products established outside the Union has a GMP certificate issued by Union competent authorities, unless a mutual recognition agreement between the Union and the third country applies.I,however, manufacturing sites that only produce active substances used as starting materials in veterinary medicinal products are not required to have a GMP certificate.2 Compliance with EU GMP for active substances must however be ensured as explained in questions 1 and 2. 1 Reference is also made to the Compilation of Union Procedures on Inspections and Exchange of Information: Article 2(2) provides that Articles 94 and 95 apply also to active substances used as starting materials. This cross-reference should be read in conjunction with the specific wording of the cross-referred provisions. To this effect, it is noted that Article 95 specifically deals with active substances used as starting materials, while paragraphs (1) to (4) of Article 94 are neutrally worded and apply therefore to both finished products and active substances. In contrast, paragraph (5) of Article 94 explicitly refers to veterinary medicinal products and not to active substances.Furthermore, to consider that manufacturing sites of active substances established outside the Union should have a GMP certificate would contradict the general scheme of the Regulation, including the requirement for importers and manufacturers of veterinary medicinal products to guarantee that active substances have been manufactured in accordance with GMP) and would run against one of the main objectives of the legislation; namely, to increase the availability of veterinary medicinal products. Further clarification or evidence of completion should be requested, commensurate to the risk.A summary assessment of the status of corrective and preventive actions should be recorded by the auditors once these have been received and assessed. This will help ensure that validation activities cover all critical functions.Risk management includes the implementation of appropriate controls and their verification. The effort applied to control measures should be commensurate with this data risk and criticality assessment.The approach to risk identification, mitigation, review and communication should be iterative, and integrated into the pharmaceutical quality system. should be knownDistributed copies should be designed to avoid photocopying either by using a secure stamp, or by the use of paper colour code not available in the working areas or another appropriate system. This includes performing the activity multiple times as separate events and reporting a desired outcome from one of these repeats.Data presentation (e.g. changing scale of graphical reports to enhance or reduce presentation of analytical peaks) can also influence decision making, and therefore impact data integrity. All EU and EEA national competent authorities conducting inspections are obliged to enter GMP certificates in the EudraGMP database. The supply chain for glycerol was not readily known by the medicinal-product manufacturer because the glycerol may have been sold several times between its manufacture and the medicinal-product manufacturer. Storage conditions during transportation should be validated or monitored using a suitable temperature-measuring device that is capable of showing fluctuations in temperature e.g. Temperature Logger. If the outcome of the inspection is that the site does not comply with EU GMP, this information shall be entered into the manufacturing and wholesale distribution database. Pursuant to Article 2(2) of the Regulation, the same procedure applies for certificates for manufacturing sites of veterinary medicinal products and for certificates for manufacturing sites of active substances used as starting materials, regardless whether they are established in the Union or outside.For aspects relevant to requests of voluntary inspections, reference is made to question 5. The frequency of this verification should be based on risk.

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