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decision-making, stored and finally discarded at the end of the retention period.Data relating to a product or process may cross various boundaries within the lifecycle, for example:IT systemsQuality system applicationsProductionAnalyticalStock management systemsData storage (back-up and archival)OrganisationInternal (e.g. between production, QC and QA)External (e.g. between contract givers and acceptors)Cloud-based applications and storage Data integrity can be affected at any stage in the lifecycle. Any such packaging operation could only be carried out by a site holding an IMP manufacturing authorisation. Any form of mixing or processing the active substance with other substances would also result in the need for a manufacturing authorisation for IMPs if the resulting product is to be used in a clinical trial.Physical processing such as milling of an active pharmaceutical ingredient would not constitute IMP manufacturing.The above does not refer to reconstitution. The company was unable to provide any explanation for the data which had been invalidated. Data integrity requirements should be incorporated into the company's contractor/vendor qualification/assurance program and associated procedures.In addition to having their own data governance systems, companies outsourcing activities should verify the adequacy of comparable systems at the contract acceptor. Simple tasks which are consistent, well-defined and objective lead to reduced risk.Risk assessment should include a business process focus (e.g. production, QC) and not just consider IT system functionality or complexity. Electronic interfaces should be validated to demonstrate security and no corruption of data, particularly where systems require an interface to present data in a different structure or file format.Does the person processing the data have the ability to influence what data is reported, or how it is presented. The sterilisation and aseptic processing of sterile active substances are not covered by this guideline and should be performed in accordance with GMP for medicinal products (Commission Directive 2003/94/EC as interpreted in the basic requirements for medicinal products including annex 1 of the EU GMP guideline part I). Separate guidance on this subject is under development. 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 definition covers the entire distribution chain from all points following manufacture through to the end user, the patient. Other incidents have been reported in Argentina, Bangladesh, India and Nigeria and attributed to the deaths of hundreds of children. Normally, the need for inspection under these circumstances is triggered by an application for a marketing authorisation. It is therefore necessary to record additional information, in particular in relation to the use and maintenance of these components. If the audit is conducted on behalf of other parties this should be clear in the report. View PDFVolume 155, 1 December 2020, 105540 rights and contentColony forming unit (cfu)Contamination Recovery Rate (CRR)Microbiological monitoring (MM) This content applies to human and veterinary medicines. The European Medicines Agency's (EMA) provides answers to frequently asked questions on good manufacturing practice (GMP) and good distribution practice (GDP), as discussed and agreed by the GMP/GDP Inspectors Working Group.The guidance provided by the working group in the form of questions and answers (Q&As) provides additional interpretation of the European Union (EU) GMP guidelines and GDP guidelines published by the European Commission. Any GMP deficiency identified during the audit must be clearly recorded with its criticality defined. EU GMP principles and guidelines are laid down in Directive 2003/94/EC (human medicines) and Directive 91/412/EEC (veterinary products). It is noted that the conduct of audits was already foreseen as part of the recommendations in the Good Manufacturing Guidelines (e.g. Section 5.29 of the Chapter 5, Part I of the EU Guidelines for Good Manufacturing Practice for Medicinal Products for Human and Veterinary Use).3 Article 93(1)(l) and Article 95 of the Veterinary Medicines Regulation.4 Reference is also made to EMA Q&A on EU GMP guide part II: Basic requirements for active substances used as starting materials: GMP compliance for active substances, question n°2. This should be documented and must be kept current. However, there is no restriction on the performance of additional testing and the use of NIR to confirm container-wise confirmation of identity can provide useful information. In the meantime, for qualification or re-qualification of clean room facilities, medicinal product manufacturers may apply the updated ISO standard with reference to Annex C (counting of microparticles), or may continue to follow the previous ISO standard. Does the record permit the reconstruction of the activity?Where is the data and metadata located?Does the system require that data is saved to permanent memory at the time of recording, or is it held in a temporary buffer?In the case of some computerised analytical and manufacturing equipment, data may be stored as a temporary local file prior to transfer to a permanent storage location (e.g. server). The following expectations should be considered for the template (blank) form:have a unique reference number (including version number) and include reference to corresponding SOP numbersshould be stored in a manner which ensures appropriate version controlif signed electronically, should use a secure e-signatureThe distribution of template records (e.g. 'blank' forms) should be controlled. Paper records should be protected from amendment, or substitution. In the context of handling unexpected deviations, what is included in the scope of registered specifications for medicinal products? The identity of key staff participating in the audit should be recorded along with their roles. The full contact details of the person through which the audit was arranged should be recorded including contact details (e-mail address, telephone number). The principles of quality risk management may be applied during the review of electronic data and review by exception is permitted, when scientifically justified.Exception Reporting is used commonly as a tool to focus the review of electronic data such as (but not limited to) electronic batch records. During the period of 'temporary' storage, there is often limited audit trail provision amending, deleting or recreating data. The choice of method of transport should be influenced by the nature and sensitivity of the product and should ensure timely delivery of IMPs to the investigator sites.The outer packaging should be labelled showing the final destination, the name of manufacturer or sponsor and the storage conditions required. 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. EU GMP requires all manufacturing companies to confirm that all its raw materials are checked on receipt to confirm their identity and quality. Risk assessments should be made available to inspectors, on request.Depending on the outcome of the risk assessment, appropriate action should be taken which may entail delisting the contractor from the approved contractor list. The summary should include whether the auditor regards the actions as satisfactory. Exception reporting rapidly highlights to the reviewer one of the most critical elements of batch review, i.e. the exceptions. The NIR method should be validated in line with the recommendations of the guideline on the use of near infrared spectroscopy by the pharmaceutical industry and the data requirements for new submissions and variations. The European Pharmacopoeia DEG limit test remains the official method for confirmation of compliance with the monograph. The revision provides updated guidance on:classification of the environmental cleanliness of clean rooms;guidance on capping of vials;bioburden monitoring prior to sterilisation. Yes. 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 active substance used as starting material is used in the manufacture of veterinary medicinal products, or the Member State where the importer is established. 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. While this may be in a rudimentary form and contain little detail, it should be developed as knowledge of the product evolves and include specifications for critical parameters and controls. Data integrity should be ensured by suitably implemented and risk-assessed controls. Small devices are usually off-the-shelf pieces of equipment that is widely used. During validation of a database-based or inclusive system, consideration should be given to implementing procedures and mechanisms to ensure data security and keeping the meaning and logical arrangement of data;load-testing, taking into account future growth of the database and tools to monitor the saturation of the database;precautions for necessary migration of data (annex 11 p17) at the end of the life-cycle of the system. 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. Directives 2001/82/EC and 2001/83/EC, as amended state that after every GMP inspection, and within 90 days of the inspection, a GMP certificate shall be issued to a manufacturer, if the outcome of the inspection shows that the manufacturer complies with GMP.CMPs are product-specific certificates issued by the competent authority that granted the marketing authorisation. This document has subsequently been proposed and adopted as draft guidance by the Pharmaceutical Inspection Cooperation Scheme (PIC/S); GMP annex 1 revision 2008: Interpretation of most important changes for the manufacture of sterile medicinal products. Yes, active substances used as starting materials in veterinary medicinal products imported or manufactured in the Union1 have to be manufactured in accordance with GMP for active substances. This obligation, set out in Article 93(1)(l) of the Regulation applies regardless of whether the active substances are manufactured in the Union or in third countries. This obligation already existed under Directive 2001/82/EC. They should be stored in a manner which ensures appropriate version control (chapter 4 p4.1). Review timeframes can be appropriately adjusted based upon manufacturing and campaign duration with adequate justification. If a presterilising filter is additionally installed, then sampling for bioburden testing may be performed prior to the prefiltration, provided that no holding time is scheduled for the solution between the two filtration steps. Yes. Nevertheless, active substances used in the manufacture of marketed products are already required to comply with GMP irrespective as to whether they may also used in the manufacture of IMPs. Annex 1, paragraph 85 states, 'the integrity of the sterilised filter should be verified before use and should be confirmed immediately after use by an appropriate method such as a bubble-point, diffusive-flow or pressure-hold test. The filter-sterilisation process may be physically stressful for the filter. Is the use of this alternative method acceptable? Integrated valves are individually identified (individual identification reference). This batch number allocated by the parallel trader should incorporate two components: (1) the batch number of the original pack and (2) a unique code identifying the repackaging/relabelling run. The code for the repackaging run may comprise numbers or letters or a combination of both. The parallel trader's batch number should be such that Component 1 above (originator batch number) is followed by Component 2 (a code related to the repackaging/relabelling run on that batch). Where the relevant authorities have confirmed the need to avoid supply disruption, repeat deviations thereafter are no longer 'unexpected' but 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. Routine monitoring, however, should continue to be carried out in accordance with the existing Annex 1. Inspectors will look to ensure that the basis for qualification of the supply chain is demonstrably robust for higher-risk materials such as glycerol. The number of samples per batch should be defined based on a risk-based approach and the overall number of samples per batch should conform to European Pharmacopoeia requirements, section 2.6.1.3. An alternative option, which would require a variation to relevant existing marketing authorisations, would be to introduce a system of parametric release, thereby avoiding the need to carry out the sterility test. EU requirements fulfil all the recommendations of WHO. Even if no manufacturing has occurred in the review period, the quality and regulatory review should be conducted as per section 1.10 and include stability results, returns, complaints, recalls, deviations (including those arising from qualification and validation activities) and regulatory background. The specification limits for bioburden should be NMT 10 CFU/100 ml, in line with the human and veterinary notes for guidance on manufacture of the finished dosage form (CPMP/QWP/486/95 and EMEA/CVMP/126/95).When a prefilter is installed, unless otherwise justified, a bioburden limit of 10 CFUs/100 ml before first filtration is achievable in principle and is strongly recommended from a GMP point of view. The auditors must be identified by full name and their employer recorded. This recommendation should include the GMP compliance status of the site and whether any reduced controls on materials receipt at the finished product manufacturing site are supported by the auditors.A proposed re-assessment period should be recommended.The final report should be signed and dated by, at least, the lead auditor. There is normally an element in the numbering format common to the bulk batch and finished product batches that clearly ties these together. It should be read in conjunction with national guidance, medicines legislation and the GMP standards published in Eudralex volume 4.The importance of data integrity to quality assurance and public health protection should be included in personnel training programmes.WHO - Annex 5: guidance on good data and record management practices Data risk assessment should consider the vulnerability of data to involuntary or deliberate amendment, deletion or recreation. Provision is also made for inspections of active-substance manufacturers but only under certain specified circumstances.IMP is unaffected because the obligations of manufacturing-authorisation holders in this case are laid down in Directive 2005/28/EC, which does not contain corresponding requirements for active substances. 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