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Cleaning validation in pharmaceuticals

The process of providing documented evidence that the cleaning methods employed within a facility consistently controls potential carryover of product (including intermediates and impurities), cleaning agents and extraneous material into subsequent product to a level which is below predetermined levels. The cleaning validation program shall primarily address the cross contamination of active ingredients of previous product into next product by means of sharing common equipment contact surfaces. In accordance with this, all equipments that have product contact surfaces shall be brought into the purview of cleaning validation. Special emphasis shall be given to cleaning procedure requirements as part of design requirement. Cleaning is one of the critical processes in pharmaceutical manufacturing. It is critical to avoid carryover of trace amounts of either active or other materials from one batch to another in order to avoid cross-contamination of the subsequent product. For that reason, equipment used in pharmaceutical manufacturing must be cleaned meticulously, and the cleaning procedure used must be validated. In the pharmaceutical industry, Good Manufacturing Practices (GMP) requires that the cleaning of drug manufacturing equipment be validated. Many different validation techniques can demonstrate that the manufacturing equipment is cleaned and essentially free from residual active drug substances and all cleaning agents. Common analytical techniques in the validation process include HPLC, Spectrophotometry (UV/Vis) and TOC. Cleaning validation must be performed using a pre-approved protocol. Selection of appropriate sampling to demonstrate that residues are removed to an acceptable level is vital for the success of cleaning validation. In addition, use of sampling techniques such as recovery study for swab and rinse and thorough visual inspection can reduce the number of samples required for cleaning validation. This article provides background on cleaning validation and the associated regulations, cleaning methods, validation strategy, and new product introduction. It also covers validation samples, acceptance criteria, clean hold time, training, change control, and revalidation. The intention of this article will be to define a comprehensive approach to the Validation of Cleaning procedures in Pharmaceutical Manufacturing facilities. It defines the basic concepts and terms associated with Cleaning Validation in the Pharmaceutical Industry. It also serves as a guide from which Master plans, Protocols and Reports may be compiled.

Biography

Rashid Mahmood has 13 years diversified experience of Quality Control, Quality Assurance, Registration Affairs, NDA, ANDA, BLA, GMP Requirements, Drugs Laws, Statistical Methodology, Method Validation, Process & Cleaning Validation, Equipment Validation etc. Certificate Courses on cGMP, cGLP, Process Validation, ISO/IEC 17025:2005, 14001:2004, OHSAS 18001:2007, SA 8000 and 9001:2008 with strong scientific, analytical, statistical, planning, managerial and training skills, have written several articles and attended many international conferences as a speaker and presented various speeches in USA & China on Cleaning Validation, cGMP Guidelines, Quality Risk Management etc. Currently, he is working as a Senior Executive Manager Quality Assurance & Quality Management Representative for Surge Labs (Manufacturer of Microencapsulated APIs, Liquid & Dry Powder Parentrals) which is the best export oriented company in Pakistan and we are the only manufacturer of microencapsulated APIs in Pakistan using European Technology and has taken over lot of Business of Ranbaxy & Ind. Swift India worldwide. We are participating as an exhibiter in all the CPhIs taking place worldwide round the year. Stancos Private Limited (Cosmetic Plant), it is the only Cosmetic plant in Pakistan which is ISO 22716:2007 GMP & ISO 9001:2008 QMS Certified by BVC and we are also exporting our cosmetic products to European countries. We are the contract manufacturer of L'OREAL Products and Sanofi famous brand (Selsun Blue Shampoo) in Pakistan.

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