

## Guidelines on packaging for solid dosage pharmaceutical products

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Pharmaceutical Products Packaging is a science and an engineering discipline that affects people everywhere. Packaging begins with the material selection. This selection drives the choice and type of packaging equipment and the final package performance. On solid dosage products, the choice of material for package drives all other choices about the product's appearance and consumer attributes. It influences and determines how a product is manufactured, filled, labeled, bundled, distributed and presented to the customer. All packaging is required to perform two major functions: containment and protection. Containment means that the package prevents the product from touching or being exposed to the environment. Protection is that the product inside does not sustain any physical damage. Pharmaceutical products, solid dosage included, are among the most regulated products in the world. The regulations make the package part of the product and place it under evaluation and review as much as the drug itself. Regulation of drugs and medical devices by governments around the world is a big part of packaging. FDA and other regulatory agencies are as strict with the packaging and its performance as they are in examining the efficacy of the drug product. Pharmaceutical products are regulated under Title 21 of the Code of Federal Regulations (CFR) that mandates specific procedures for developing, proving and changing previously packaging.

### Biography

Jorge Martinez is a Chemical Engineer at Novartis, North Carolina. He has completed his Bachelor in Chemical Engineering at the age of 22 years from University of Puerto Rico and master studies in Engineering Management from Polytechnic University of Puerto Rico. He has worked for some of the Fortune 500 Pharmaceuticals Companies as Pfizer, Bristol Myers Squib, and Eli Lilly with progressive responsibilities in the Technical Services, Operations and Engineering Areas. After his ten years in the pharmaceutical industry, he moved to North Carolina to work as a Process Engineer Expert at Novartis.

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