

Press Release:

GlobePharma, Inc. Introduces Accelerated Powder Segregation Tester

PowderEx™ Detects Formulation Stage Content Uniformity Issues

Is content uniformity an issue for your product? GlobePharma's PowderEx™, Accelerated Powder Segregation Tester, is the tool for formulators to detect this segregation at its earliest, prior to costly production runs. Blend uniformity is significant in the foundation for a consistent product. Although the original blends will pass initial blend uniformity testing, they are subjected to additional process post-mixing. These processes, possibly involving an auger, vibration or screw feeding, vacuum transfer, etc. - may potentially lead to segregation of the ingredients, which in turn may lead to unacceptable content uniformity.

PowderEx™ subjects powder blends at formulation batch sizes to vibration, inducing segregation in a shortened period of time with a minimal amount of product. This technique provides an innovative solution to this time versus process dilemma with as little as 10g of a specific powder blend. This works within the formulation development stage where small size batches with normal processing times are too short for segregation problems to be detected, as segregation usually develops over a period of time.

GlobePharma's PowderEx™ operates by placing powder blends on a small membrane within a tubular column. The blend is subjected to vibration for a fixed period of time. Once the specified time has elapsed, the blend is transferred to a split sampling die utilizing a customized technique and accessories. These samples are then compressed using a modification of GlobePharma's Unit-Dose Sampling Technique, with a multi-tip punch. The samples are then compressed and tested for content uniformity. Repeating the procedure for various time periods will determine at which time point segregation causes the content uniformity to go beyond acceptable limits and thus, which formulation is the most robust with respect to segregation potential.

Dr. Sanni Raju, founder of GlobePharma, Inc. and PowderEx™ inventor, says, "PowderEx™ is the simplest, most practical, economical and operator-friendly accelerated powder segregation tester developed from twelve years of research and five prototypes."

GlobePharma, Inc. is an innovator of solid dosage form equipment. Founded in 1993, with the introduction of the Model I powder sampler, the company has broadened its product offering to meet the ever-changing needs of the pharmaceutical industry. GlobePharma, Inc. offers blenders from formulation to pilot scale, R & D tablet presses, instrumentation, mills, granulators, valves and cleaning validation tools and coupons. GlobePharma is exhibiting at this year's AAPS

Annual Meeting in Orlando at Booth # 308. The PowderEx™ Accelerated Powder Segregation Tester will be on display and demonstrated throughout the event.



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