



Freeze-Drying of Nanoparticles: Fundamentals and Critical Factors

ABSTRACT:

The major obstacle that limits the use of nanoparticulate drug delivery systems is the physical instability that is frequently noticed when such systems are stored for an extended time period. To overcome this problem water must be removed. While Freeze-drying has already proven to be one excellent technique to achieve long term stability for such products, this procedure may generate freezing and drying stresses which, in turn, can affect physical stability of nanoparticles.

This webinar will outline process and formulation strategies and illustrate critical factors which must be considered when freeze-drying nanoparticulate formulations.