



LyoLearn Webinars

Understanding the Physical Properties of Materials in Freeze Dried Products

ABSTRACT:

Over the years, scientists have strived to understand and apply scientific principles to the formulation and process development of freeze dried products. As opposed to using a trial and error approach, modern formulation and process development scientists have the information and tools necessary to design an optimal formulation and lyophilization cycle using a scientifically based empirical approach.

By understanding the scientific principles and physical properties of the formulation and the lyophilization process, the development scientist can design a product that is produced in the most cost effective manner, in the least amount of time, is of the highest quality, and has adequate long term stability. Additionally, understanding the scientific principles and physical characteristics in this way, allows the development scientist to better troubleshoot and correct problematic formulations and or lyophilization cycles.