



Troubleshooting Problematic Cycles and Formulations

ABSTRACT:

It is not unusual for lyophilized products to occasionally fail during manufacturing at the commercial level due either to poorly designed lyophilization cycles or poorly designed formulations. By understanding the thermal characteristics of the formulated product, it is possible to specifically identify the problem, and then troubleshoot and correct the problems with either the formulation or the lyophilization cycle itself.

A brief discussion of the physical properties of materials will be discussed followed by working through case studies of failed products to identify the problems, suggest the reasons for failure, and determine a plan of action for fixing the problems to prevent future failures.