

PAT Toolbox

Process Train Coverage

Currently Available PAT Technologies

Near Infrared Spectroscopy Turbidimetry Refractometry Viscosity Focused Beam Reflectance Measurement Ultra Violet Photometry Laser Diffraction Mass Spectroscopy

Under Development

Mid Infrared Spectroscopy Raman Spectroscopy

Process unit operations

Dispensing								
Dissolution								
Suspension Prep.								
Distillation								
Reaction								
Crystallization								
Column Reaction Purification								
Wet-milling								
Jet-milling								
Spray-Drying								
Drying								

Process Development Steps

Familiarization								
Industrialization								
Scale-Up								
Commercial Mnfg. Start-Up								
Commercial Routine Mnfg								
Continuous Improvement								
