PAT Toolbox

Process Train Coverage

		Currently Available PAT Technologies									
		Near Infrared Spectroscopy	Turbidimetry	Refractometry	Viscometry		Ultra Violet Photometry	Laser Diffraction	Mass Spectroscopy	Mid Infrared Spectroscopy ⁽¹⁾	Raman Spectroscopy ⁽²⁾
Process unit operations	Dispensing	(ii)									•
	Dissolution	(ii)	(ii)	•	•					•	•
	Suspension Prep.	(ii)	•		(ii)	(ii)				•	•
	Distillation	(ii)		(ii)						(ii)	•
	Reaction	(ii)								•	•
	Crystallization	•	•	(ii)	•	(ii)				•	•
	Column Purification	n		(ii)			•			•	•
	Wet-milling					(ii)				(ii)	(ii)
	Jet-milling							(ii)			•
	Spray-Drying	(ii)				(ii)		•			•
	Drying	(ii)							•		•
	Blending										
	Tableting	(ii)									
	Coating										(#)
Process Development Steps	Familiarization									(ii)	(ii)
	Industrialization	(ii)	(ii)	(ii)	(ii)	(ii)		(ii)	(ii)	(ii)	•
	Scale-Up	(ii)	(ii)	(ii)	(ii)	(ii)		(ii)	(ii)	(ii)	•
	Commercial Mnfg. Start-Up	•	(ii)	•	(ii)	•	•	•	•	•	•
	Commercial Routine Mnfg	•	•	•	•		•	•	•	•	•
	Continuous Improvement	(ii)				•			(ii)	(ii)	•



