

Process Step	Type (Examples)	Potential Critical Process Parameters	Potential Critical Quality Attributes
	Cone mill (e.g., Comill)	<ul style="list-style-type: none"> • RPM • Screen size • Feeder speed • Impeller (blade) type • Gap for impeller 	
	Hammer mill (e.g., Frewitt, Fitzpatrick)	<ul style="list-style-type: none"> • Screen size • Feeder speed • Position of knives or hammers • Mill speed 	
Drying	Oven (e.g., Waldner, Introtherm, O'Hara, & Colton)	<ul style="list-style-type: none"> • Inlet air temperature • Drying time • Air Flow rate • Humidity of inlet air • Loading of trays (pattern and amount) 	<ul style="list-style-type: none"> • Moisture content • Particle size distribution (after milling)
	Fluid bed (e.g., Niro, Glatt)	<ul style="list-style-type: none"> • Inlet air temperature • Humidity of inlet air • Drying time • Air Flow rate • Filter bag pore size • Plate mesh 	
Tabletting	Force feed (e.g., Fette, Korsh, Manesty, Kikusui, Courtuoy, etc.), Centrifugal (IMA)	<ul style="list-style-type: none"> • Pre-compression and final Compression machine setting • Tabletting speed • Maximum/minimum compression force • Speed of force feeder • Punch design • Holding time 	<ul style="list-style-type: none"> • Content uniformity • Assay • Hardness • Friability • Disintegration • Weight • Weight variation • Thickness • Visual Inspection/Appearance • Dissolution Point or Profile • Microbial (if applicable)
Encapsulator	Pellet dosing chamber (e.g., Bosch GKF)	<ul style="list-style-type: none"> • Machine setting • Encapsulator speed • Holding time • Dosator height 	<ul style="list-style-type: none"> • Content uniformity • Assay • Disintegration • Weight