

# LATITUDE Pharmaceuticals Equipment List

## Key Manufacturing Equipment

- Autoclave
- Bag-On-Valve Aerosol Filling Machine (semi-automatic)
- Ball mill minicer (NETZSCH)
- Blenders (V- and bin-)
- Biosafety hoods
- Capsule fillers (powder)
- Capsugel filler/sealer system (Capsugel CFS-1000)
- Centrifuges (low speed to ultra)
- Coaters
- Co-mill
- Dessicators
- Low Shear Extruders, Pelletizers
- Fitzmill
- Fluid bed processors/coaters
- Freeze-dryers/Lyophilizers
- HDPE bottle heat sealer
- High shear granulator
- High shear mixer granulator (GEA)
- High pressure extruder (Avestin)
- Hot melt extruders with choppers
- Homogenizers
- Jetmill
- Laminar flow hood
- Microfluidizers (pilot to manufacturing scale)
- Microfuge (refrigerated)
- Minibeador
- Mixers (regular, high shear, pilot scale, planetary)
- Planetary micro mill
- Resin grinders
- Robotic liquid handler
- Rotavaps
- Sonicators
- Soni-Sifter
- Speedvac
- Spheronizer (Marumerizer)
- Spray dryers
- Sterilizers
- Tablet presses (single, 4- and 16-station)
- Vacuum ovens
- Complete sets of 1-200 emulsion/liposome manufacturing equipment including microfluidizers available for lease for GMP use

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## Key Analytical Instruments/Equipment

- Balances and microbalances
- Capillary Electrophoresis IEF Analyzer (Protein Simple ICE280)
- Circular Dichroism Spectrometer
- Coulter counter
- Differential scanning calorimeter
- Digital microscope
- Dissolution apparatuses with autosamplers (Vankel)
- Dissolution system (Sotax CE 7smart)
- Franz cell apparatus
- Halogen moisture analyzer
- Helium pycnometer
- HPLCs with UV, PDA, ELSD, RI, fluorescence and mass detectors
- Inhalation particle analyzer (Next Generation Impactor, NGI)
- Injection force analyzer
- Karl Fischer titrator
- Label and barcode printers
- LCMS/LCQ
- Light scattering detector
- Moisture sorption isotherm analyzer
- Osmometers
- Particle analyzers (Mastersizer with dry & wet samplers, nano-sizer, HIAC, DLS)
- Particle counters (HIAC, Single Particle Optical Sensing Acusizer, Coulter)
- Plate readers
- Sieves and sifters
- Spectrophotometers
- Stability chambers
- Tablet friability tester
- Tapped density tester
- Thermogravimetric analyzer/differential scanning calorimeter
- Tensiometer
- Ultracentrifuge
- USP dissolution apparatus and samplers
- USP tablet disintegration tester
- Viscometer
- X-ray Powder Diffraction (XRPD)
- Zeta potential analyzer