



Correct as at 03-Feb-2020

ARCINOVA

## QC & Molecule Development Equipment List

Key Equipment Type	Brand/Supplier	Qty.	Comments	Standard
<b>HPLC SYSTEMS</b>				
HPLC	Agilent/HP1100/1200	15	13 x 1100, 2 x 1200	GMP/GLP
HPLC	Dionex Ultimate 3000	11	1 to MS, 4 to DAD	GMP/GLP
Ion Chromatography	Dionex ICS 3000	1		GMP/GLP
UPLC/HPLC	Thermo Vanquish	2	Light pipe detectors/CAD detectors	GMP/GLP
UPLC	Waters Acquity	3		GMP/GLP
<b>HPLC DETECTORS</b>				
UV/Visible, Variable Wavelength	Agilent	15		GMP/GLP
Radiochemical	Radiomatic 625TR (x6) Radiomatic 525TR (x1)	7	1 ml and 2 ml flow cells available	GMP
Diode Array	Dionex	7		GMP/GLP
Nitrogen Emission	Antek 8060	1		GMP/GLP
Refractive Index	Agilent	1		GMP/GLP
CAD	Dionex	1		GMP/GLP
CAD	Thermo	2		GMP/GLP
Conductivity	Dionex	1	Part of Ion Chromatography system	GMP/GLP
<b>FRACTIONATION</b>				
LC Fraction Collector	Waters Fraction Collector II	1		GMP/GLP
<b>GCS</b>				
Headspace System	Perkin Elmer Clarus 590	1	Flame Ionization Detector/Thermal Conductivity Detector	GMP/GLP
Headspace System	Perkin Elmer Clarus 500/Turbomatrix 110	1	Flame Ionization Detector only	GMP
<b>DSC/TGA</b>				
TGA	Mettler Toledo TGA 850	1		GMP
DSC	Mettler Toledo DSC 823E	1		GMP
<b>XRPD</b>				
X-ray Diffractometer	Bruker D5000	1	Autosampler changer and hot stage	GMP
<b>FT-IR</b>				
FT-IR Spectrometer	Bruker Vertex 70	1	ATR Golden Gate and Drifts attachments	GMP
<b>NMR</b>				
500 MHz NMR Spectrometer	Bruker Avance III HD	1	Liquid probes x3, Solid state probes: One HX type and one 2.5 mm 1H-19F-13C, SampleJet autosampler	GLP/GMP
<b>PARTICLE SIZER</b>				
Laser Particle Sizer	Malvern Mastersizer 2000	1	Micro precision unit and small volume flow cell	GMP
<b>PARTICLE COUNTER</b>				
Liquid Particle Counter	Hiac Royco Model 9703	1		GMP/GLP
<b>ICP-MS</b>				
ICP-MS with LC Interface	Agilent 7500C Series G3155A	1		GMP



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LC-MS				
LC-MS	Dionex-Thermo-Ultimate MSQ	1	Dionex LC system (2009) with Diode Array Detector (2006).	GMP/GLP
DISSOLUTION				
USP Type I/II	Distek 2100C, Distek 2500 and Varian VK7010	5	Three systems (2 x Distek + 1 x Varian) are configured for automated sampling/on-line measurement using Agilent UV spectrophotometers.	GMP
DYNAMIC VAPOUR SORPTION/DESORPTION				
SMS Resolution	Surface Measurement Systems DVS 1	1	Includes organic vapours and mixed vapours	GMP/GLP
WATER DETERMINATION				
KF Coulometer	Metrohm 737 and 756	2	756 includes 885 oven sample changer	GMP/GLP
KF Volumetric Homogeniser	Metrohm 901	1		GMP/GLP
KF Oven Coulometer	Metrohm	1		GMP/GLP
Water Activity Meter	Novasina AW Sprint	1		GMP/GLP
SURFACE AREA				
Surface Area and Porosity Analyser	Micromeritics ASAP2020	1	Both Nitrogen and Krypton sorption	GMP
MICROSCOPE				
Hot Stage Microscope	Carl Zeiss	1	Axio Imager	GMP
MICROBIOLOGICAL EQUIPMENT				
Binocular Microscope	Euromex Arhem	1		GMP/GLP
Microscope and Camera	Nikon Eclipse E600	1		GMP/GLP
Sterility Testing Equipment	Steritest Equinox	1		GMP/GLP
Microplate Reader for Endotoxin Testing	Tecan Sunrise	1		GMP/GLP
	Bioscan	1		GMP/GLP
	PTS Micro	1		GMP/GLP
STABILITY ROOMS				
Walk-in Rooms	Weiss	6	ICH conditions	GMP/GLP
MANUFACTURING EQUIPMENT				
Precision Powder Micro-dosing system	Capsugel Xcelodose®	1		GMP/GLP