



Instrumentation – Kyoto, Japan

Liquid Chromatography

Agilent HPLC	13
Waters HPLC/UPLC	36
Shimadzu HPLC	8
Thermo Fisher Scientific HPLC	1
HPLC Detectors	
Ultraviolet (UV)	42
Refractive Index (RI)	3
Photodiode Array (PDA)	4
Corona Charged Aerosol Detector (CAD)	1
Thermo Fisher Scientific Ion Chromatograph	2

Gas Chromatography

Agilent GC	4
Headspace Auto Sampler	3
Shimadzu GC	1
PerkinElmer Headspace Auto Sampler	1

Mass Spectrometry

Agilent GC/MS	1
Shimadzu LC/MS	1
Waters LC/MS	1

Capillary Electrophoresis

AB SCIEX PA800 Plus (PDA/UV)	2
ProteinSimple iCE3 (PrinCE)	2

Elemental Analysis

Agilent 7900/8900 ICP/MS	2
Shimadzu ICP/OES	1
Milestone Microwave Digestion System	2
Elementar CHN Analyzer	1

Spectrophotometry

GEOL NMR	1
Hitachi High-Technologies UV	1
Shimadzu UV	1
Thermo Fisher Scientific IR	1
Shimadzu IR	1
Rigaku XRD	1

Dissolution

Toyama Sangyo Dissolution Tester	10
Toyama Sangyo Disintegration Tester	2

Molecular Biology

Beckman Coulter Cell Counter	1
Bio-Rad CCD Imager	1
Bio-Rad Image Analyzer	1
Bio-Rad Protein Transfer Device	1



Molecular Biology (contd)

BIOTEC Plate Washer	3
Lonza Microplate Reader	1
Molecular Devices Microplate Reader	2
Thermo Fisher Scientific PCR System	1
Biohazard Cabinet	2
CO2 Incubator	4
Liquid Nitrogen Freezing Storage Container	2

Stability Storage

Stability Chambers (2,400 ft ²)	53
Includes 8 walk in Chambers, -80°C~80°C / 20~92%RH	

Microbiology

BIOMERIEUX Bacterial Identification System	1
Novasina Water Activity Measurement Device	1
Merck Membrane Filter Filtration Device	3
SHIBUYA Sterility Testing Isolator	1
Steris Biological Indicator Evaluator Resistometer System	1
Spiral Plater	1
Incubator	7
Clean Bench	2
Biohazard Cabinet	3

Miscellaneous

Hitachi High-Technologies DSC	1
KYOTO ELECTRONICS Volumetric Karl Fischer (KF) System	1
KYOTO ELECTRONICS Volumetric Karl Fischer (KF) System with Homogenizer	2
KYOTO ELECTRONICS Coulometric KF System	3
KYOTO ELECTRONICS Coulometric KF System with Oven	1
ARKRAY Osmometer	1
BUCHI Melting Point Measuring Device	1
Schleuniger Tablet Hardness Tester	1
JASCO Polarimeter	1
Shimadzu TOC	1
Metrohm Potentiometric Titrator	1
TA Instruments THA	1
Brookfield Viscometer	1
HORIBA Particle Size Distribution Measuring Device	2
Oven	2
Electric Furnace	3
Foreign Matter Inspection Machine	1
Light Blocking Automatic Particle Measuring Device	1
Imaging Chromatogram	1
Electric Conductivity Meter	1

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