



Instrumentation - Netherlands

Liquid Chromatography

Waters Alliance 2695 HPLC	11	11	-	-	-
Waters Arc HPLC	4	4	-	-	-
Thermo Scientific Dionex ICS-6000 DP / AS-AP / ICS-6000 DC / ICS-6000 E	1	1	-	-	-
Thermo Scientific Vanquish	3	3	-	-	-
Waters Acquity UPLC	6	4	2	-	-
Agilent 1260 Infinity II	1	1	-	-	-
Agilent 1290 Infinity	1	1	-	-	-
Pickering Pinnacle PCX System (connected to a HPLC)	1	1	-	-	-

HPLC Detectors (Waters)

Ultraviolet (UV)	10	10	-	-	-
Photodiode Array (PDA)	7	7	-	-	-
Refractive Index (RI)	3	3	-	-	-
Charged Aerosol Detector (CAD)	1	1	-	-	-
Conductivity (Cond)	1	1	-	-	-
Evaporative Light Scattering (ELSD)	1	1	-	-	-

UPLC Detectors (Waters)

Ultraviolet (UV)	3	3	-	-	-
Photodiode Array (PDA)	3	3	-	-	-
Fluorescence (FL)	1	1	-	-	-

HPLC Detectors (Thermo/Dionex)

Ultraviolet (UV)	2	2	-	-	-
Photodiode Array (PDA)	3	3	-	-	-
Charged Aerosol Detector (CAD)	1	1	-	-	-
Fluorescence (FL)	1	1	-	-	-
Electrochemical detector (ED)	1	1	-	-	-
Conductivity (Cond)	1	1	-	-	-

HPLC Detectors (Agilent)

Ultraviolet (UV)	2	2	-	-	-
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Gas Chromatography

Agilent GC-FID with Liquid and Headspace Autosamplers	6	6	-	-	-
Agilent GC-FID with Liquid Autosamplers	2	2	-	-	-

Mass Spectrometry

Agilent GC-MS with Liquid and Headspace Autosamplers	2	2	-	-	-
Waters RDA (TOF-MS)	1	1	-	-	-
Waters Xevo Q-TOF-MS	1	1	-	-	-
Bruker MicroTOF	1	-	1	-	-
Waters TQS-micro	3	1	2	-	-

Capillary Electrophoresis

Beckman PA 800 Plus	1	1	-	-	-
Maurice Combo-OBM	1	1	-	-	-

Total	PROXY	Spinnoovation	MicroSafe	Bactimm
11	11	-	-	-
4	4	-	-	-
1	1	-	-	-
3	3	-	-	-
6	4	2	-	-
1	1	-	-	-
1	1	-	-	-
1	1	-	-	-
10	10	-	-	-
7	7	-	-	-
3	3	-	-	-
1	1	-	-	-
1	1	-	-	-
1	1	-	-	-
3	3	-	-	-
3	3	-	-	-
1	1	-	-	-
2	2	-	-	-
3	3	-	-	-
1	1	-	-	-
1	1	-	-	-
1	1	-	-	-
1	1	-	-	-
2	2	-	-	-
6	6	-	-	-
2	2	-	-	-
2	2	-	-	-
1	1	-	-	-
1	1	-	-	-
1	-	1	-	-
3	1	2	-	-
1	1	-	-	-
1	1	-	-	-



Elemental Analysis

Perkin Elmer PinAAcle 900T AAS	1	1	-	-	-
Thermo Fischer Scientific AAS ICE3500 AA System	1	1	-	-	-
Agilent 7100 ICP-MS Spectrometer	1	-	1	-	-
Agilent 5100 ICP-OES Spectrometer	1	-	1	-	-

NMR Spectroscopy

Bruker Avance 3 (500 MHz) Liquid NMR	2	-	2	-	-
Bruker Avance 3 (400 MHz) Liquid NMR	1	-	1	-	-
Bruker Neo (400 MHz) Solid State NMR	1	-	1	-	-

Dissolution

Dissolution Apparatus (Types 1, 2, 5, 6) (2 automatic SOTAX)	11	11	-	-	-
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Spectrophotometry

	Total	PROXY	Spinnovation	MicroSafe	Bactimm
Fluorescence Spectrophotometer	7	1	-	6	-
FT-IR Spectrophotometers	4	3	1	-	-
UV-Vis Spectrophotometers	2	-	-	2	-
UV meter	1	1	-	-	-
PANalytical Empyrean X-Ray Powder Diffraction (XRPD)	1	-	1	-	-

Molecular Biology/Cell Biology/Virology

(Q-)PCR (Applied Biosystems)	7	-	-	7	-
Droplet Digital PCR Systems (Bio-Rad)	2	-	-	2	-
Western Blotting (Protein Simple WES)(Bio-Rad)	1	-	-	1	-
Plate Readers (Bio-Rad) (BioSPX)	8	1	-	6	1
Automated Express DNA Extraction (Applied Biosystems)	1	-	-	1	-
Sequencer	1	-	-	1	-
Elektrophoresis Units	4	1	-	3	-
Bruker Microflex MALDI-TOF	1	-	-	-	1
Particle counter (APC APEXZ50) (Lighthouse)	2	-	-	2	-
FACS Beckmann coulter(1) Merck(1)	2	-	-	2	-
NP80 NanoPhotometer (Implen)	1	-	-	1	-

Microbiology

Air Samplers	10	-	-	5	5
Autoclaves	10	1	-	6	3
Clean Rooms	11	1	-	1	9
Colony Counters Stuart (2) Stewart (1)	3	-	-	3	-
Isolators Bioquell (1) Interflow (1) Skan (1)	3	-	-	3	-
LAF-Cabinets	36	1	-	31	4
Sterility Testers	6	-	-	3	3
Microscopes	20	3	1	15	1
Liquid viewer (Adelphi)	2	-	-	2	-
Symbio pump (Merck)	3	-	-	3	-
Milliflex oasis pump (Merck)	2	-	-	2	-
Milliflex Plus (Millipore)	1	-	-	1	-
Equinox pump (Merck)	1	-	-	1	-
Vacuum pump	7	-	-	7	-
Bactec FX 200 BD (BD)	2	-	-	2	-
Cell density meter Biochrom (2) Fisher (1)	2	-	-	2	-



Liquid Particle Counters (LS-20) Lighthouse	1	-	-	1	-
Stability/Storage					
Climate rooms 2-8 °C	2	1	-	1	-
Climate rooms 25 °C / 60 %RH	1	1	-	-	-
Climate rooms 30 °C / 75 %RH	1	1	-	-	-
Climate rooms 40 °C / 75 %RH	1	1	-	-	-
Climate Cabinets (various conditions)	5	5	-	-	-
Incubators (various condition)	83	2	-	63	18
Refrigerators	33	4	2	23	4
Freezers -20 °C	34	8	2	23	1
Freezers -80 °C	18	5	-	12	1
Suntester Weissstechnik PharmaEvent	1	1	-	-	-
Miscellaneous					
Metrohm KF	2	2	-	-	-
Optical Activity Meters (Polarimeter)	2	2	-	-	-
Conductivity Meter	2	1	-	-	1
Density Meters	5	2	-	3	-
Disintegration Testers	2	2	-	-	-
Friability Testers	1	1	-	-	-
Hardness Tester	1	1	-	-	-
Powder (Bulk) Density Tester	1	1	-	-	-
Sieve Particle Size Testers	1	1	-	-	-
Shimadzu Total Organic Carbon (TOC)	3	2	-	-	1
Malvern Mastersizer 2000	1	1	-	-	-
Malvern Mastersizer 3000	1	-	1	-	-
Osmomat O30-D/3000D Osmolality Meter	3	1	-	2	-
Metrohm 756 KF Coulometers	2	2	-	-	-
pH Meters	12	3	-	7	2
Centrifuges (Eppendorf / Thermo)	19	7	-	11	1
Anton paar MCP kinematische Iovis 2000M	2	2	-	-	-
Shear Tester	1	1	-	-	-
Ubbelohde Static Viscosity Meter	1	1	-	-	-
Anton paar 300QCL viscometer	1	1	-	-	-
Refractive Index Meter	2	2	-	-	-
Dynamic Vapor Sorption Analyser (SMS DVS-1)	1	-	1	-	-
Differential Scanning Calorimeter (DSC TA 250)	1	-	1	-	-
Thermo Gravimetric Analyser (TGA TA 5500)	1	-	1	-	-
High Voltage Leak Detector	1	1	-	-	-
Zetasizer Nano ZS	1	-	-	1	-
Samux Mass photometer (Refeyn)	1	-	-	1	-
Ion exchanger Zirbus (2x) TKA (2x)	4	-	-	4	-
Water softener (Fegon)	1	-	-	1	-
Vacusafer pump	9	-	-	9	-
Thermal cycler (Veriti 2x, C1000 2x, CFX96 1x) Bio-rad (4)	5	-	-	5	-
Thermo-fisher (2)					
Lichtbak (VWR)	2	-	-	2	-
Chemidoc MP (Bio-rad)	1	-	-	1	-
Platwasher 405TSRS (BioSPX)	3	-	-	3	-
Platwasher 50TS8	1	-	-	1	-



Waterbaths (Fisher Scientific) (Thermo Scientific) (VWR) (Julabo) (Banson) (Grant-bio)	19	-	-	19	-
Calibration weights (Mettler-Toledo) (Kern) (Carl Roth) (Zwiebel) (Avantor)	22	-	-	22	-
Metrology					
Pressure Meters (JRI)	5	1	-	4	-
Flow Meters	1	-	-	1	-
CO ₂ Meters	3	1	-	2	-
O ₂ Meters	8	1	-	7	-
Hartech BFG 200N Power Meter	1	-	-	-	1
Lux Meters	4	2	-	2	-
Thermometer Testo (175T2) (Testo)	1	-	-	1	-
H ₂ O ₂ Meters (Drager)	1	-	-	1	-
Calibration oven (Hypderion 4936) (TTMS)	1	-	-	1	-
Production					
Floor balance	1	1			
Response filler	1	1			
Filter Integrity Tester, Merck Millipore	1	1			
Masterflex Easy-Load Peristaltic pump, Cole-Parmer	3	3			
Repeater pump, Baxter	1	1			
Mixing drum 200 liter, ThermoFisher	1	1			
Pneumatic capper, Airgo crimper	2	2			
Impulse Sealer, 520 ISTMED	1	1			
Pneumatic Capping Machine, Adelphi	1	1			
Capsule filler, ProFiller	2	2			
Mobius Mixing system (10/50L, 50L & 200L)	3	3			
Quantos Dosing Unit, Mettler Toledo	2	2			