

## Characterisation of API and Drug Products / Identification of Impurities / Quantification

Equipment:	Amount:	Manufacturer	Area of Application:
HPLC	38	Shimadzu and Agilent	Use with common mobile phases (RP, SEC, IEC, HILIC)
UPLC	2	Waters Acquity	High pressure LC with common mobile phases (RP, SEC, IEC, HILIC)
Ion chromatography	1	Dionex	For the quantification of small molecules and the characterisation of protein glycosylation (amperometric and conductivity detection)
Amino acid analyser (post-column derivatisation)	2	Sycam	Quantification of amino acids and the qualification of protein reference standards
Spectrometer	1	Shimadzu UV-Vis Spektrometer	Absorption, extinction, absorption spectra
Capillary electrophoresis	4	Beckman Coulter and Agilent	Quantification and determination of impurities of proteins (cIEF, cSDS, CZE)
Gas chromatography	3	HP and Agilent	Different detectors (MS, FID, NPD) and head-space auto sampler
Mass spectrometer	4	Thermo-Fisher Scientific and Waters	Characterisation of proteins, structural elucidation and quantification (2 LTQ-XL, 1 LTQ-Orbitrap-XL, 1 Xevo G2 QTof)
Gel electrophoresis	6	GE Healthcare Life Sciences	SDS-PAGE and IEF for quantification and determination of impurities
AAS	1	Thermo Fisher Scientific	Quantification of metal ions