



Instrumentation – Milan, Italy

Liquid Chromatography

Agilent HPLC	15
Shimadzu HPLC	1
Agilent UPLC 1260	1
Agilent Automatic Fraction Collector Preparative 1260 Infinity	1
Evaporative Light Scattering (ELSD)	1
Ultraviolet (UV-DAD-MWD)	12
Refractive Index (RI)	1
Fluorescence (FL)	2
Dionex ICS-1000 Ion Chromatographs (IC)	2

Gas Chromatography

Agilent GCs	9
Agilent Headspace Autosamplers	4
Thermal Energy Analyser (TEA)	1
Flame Ionization Detector (FID)	8
Thermal Conductivity Detector (TCD)	4
Nitrogen Phosphorus Detector (NPD)	1
Electron Capture Detector (ECD)	1

Mass Spectrometry

AbSciex 4000 Q TRAP	1
Agilent LC/MS – Q-TOF	1
Agilent LC Ion Trap (APCI, APES & APPI sources)	1
Agilent GC/MS	4

Elemental Analysis

Perkin Elmer Optima 2000 DV Inductively Coupled Plasma (ICP-OES) Spectrophotometer	1
Perkin Elmer Elan ICP/MS	1
Perkin Elmer PinAAcle 900	1
Perkin Elmer Analyst 400 Flame Atomic Absorption Spectrometer	1
Agilent 7700X ICP-MS Agilent	1
Agilent ICP-OES 5100 Agilent	1

Dissolution

Pharmatest Dissolution Bath	2
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Spectrophotometry

Perkin Elmer FT/IR Spectrum Two	1
Perkin Elmer Lambda 35 UV	1
Shimadzu UV-2600 Thermostatic Control	1
Shimadzu UV-Mini-1240	1
Biotek EL 800	2



Microbiology

Microbiology laboratories with controlled access, equipped with HEPA filtration and BSL2 capabilities	1
Microbiology laboratories with controlled access, equipped with HEPA filtration class A for sterility	1
Microbiology laboratories with controlled access, equipped with HEPA filtration class D for non sterile products	3
Biohazard Cabinets	24
Laminar Flow Cabinets	8
Millipore Integral Steritest™ System for Membrane Filtration	1
Applied Biosystem Genetic Analyzers	2
HIAC/Royco Particle Counters	2
Biotek Kinetic Systems for Performing Kinetic Turbidimetric/Chromogenic Endotoxin Tests	1
BactAlert 3D Dual T for Fast Sterility on Cellular Products	1
7300 Real Time PCR System	1
Ultra Centrifuge	1

Stability

Stability Chambers 1,5 Cubic Meter	8
Walk in Stability Chambers	1

Miscellaneous

Volumetric Karl Fisher (KF) Systems	2
Coulometric KF Systems	2
Polarimeter	1
Refractometer	1
Viscometers	3
Electronic Titrators	2
Panlab Temperko	1
TOC Analyzer	2

Metrology

2 full-time metrologists for rooms, hoods, incubators validation	
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Instrumentation – Poggibonsi, Italy

Liquid Chromatography

Agilent HPLC	3
Shimadzu HPLC	2
Perkin Elmer HPLC	1
Evaporative Light Scattering (ELSD)	1
Ultraviolet (UV-DAD-MWD)	8
Fluorescence (FL)	1
Dionex ICS-1000 Ion Chromatographs (IC)	1

Gas Chromatography

Perkin Elmer GCs	2
Perkin Elmer Headspace Autosamplers	2
Flame Ionization Detector (FID)	1
Thermal Conductivity Detector (TCD)	1

Mass Spectrometry

Perkin Elmer GC/MS	1
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Elemental Analysis

Thermo Scientific Flame Atomic Absorption Spectrometer	1
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Dissolution

Dissolution Bath	2
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Spectrophotometry

Perkin Elmer Lambda 25 UV	2
Biotek EL 800	2
Thermo Scientific Nicolet 380	1

Microbiology

Microbiology laboratories with controlled access, equipped with HEPA filtration class D for non sterile products	1
Biohazard Cabinets	3
Laminar Flow Cabinets	2
Millipore Integral Steritest™ System for Membrane Filtration	1

Stability

Stability Chambers 0.5 Cubic Meter	4
Walk in Stability Chambers	2

Miscellaneous

Volumetric Karl Fisher (KF) Systems	1
Polarimeter	1
Refractometer	1
Viscometers	1
TOC Analyzer	1