



Lancaster, PA Facility Instrumentation

Liquid Chromatography

Agilent HPLC/UPLC	143
Waters HPLC/UPLC	87
HPLC Detectors	
Ultraviolet (UV)	189
Refractive Index (RI)	17
Fluorescence (FL)	14
Photodiode Array (PDA)	60
Multi-angle Light Scattering (MALS)	2
Electrochemical (ECD)	2
Evaporative Light Scattering (ELSD)	3
Corona Charged Aerosol Detectors (Plus, Ultra and VEO)	13
Dionex Ion Chromatographs (IC)	5
Fraction Collector	2
Pickering Pinnacle PCX Post Column Derivatizer	2
Thermo Nano LC	1

Gas Chromatography

Agilent GC	21
Headspace Autosampler	21

Mass Spectrometry

Thermo Fusion Lumos Orbitrap with LC or Nano-LC	1
Thermo LTQ Orbitrap XL with LC or Nano-LC	2
Waters Xevo G2XS QTOF with LC	1
Bruker Ultraflexextreme MALDI-TOF/TOF	1
Agilent TOF with LC	4
Sciex 4500 MS/MS with LC	3
Thermo TSQ Vantage MS/MS with LC	6
Agilent QTOF with LC	2
Agilent MS with GC	5

Capillary Electrophoresis

Beckman Coulter PA 800 PLUS (3 PDA/UV/LIF, 6 PDA/UV, 4 PDA)	13
Protein Simple iCE3 (4 PrinCE, 3 Alcott Autosamplers)	7

Elemental Analysis

Agilent 7700/7900 ICP/MS	4
Thermo Scientific iCAP 6500 ICP/OES	2
Perkin Elmer Optima 5300 Inductively Coupled Plasma (ICP-OES) Spectrophotometer	1
Perkin Elmer Atomic Absorption Spectrometer	2
Perkin Elmer CHN Analyzer	1
Milestone Ultrawave Microwave Digestors	3

Spectrophotometry

Bruker D8 ADVANCE XRD	1
Agilent 8453/8454 UV/VIS Spectrophotometers	8
Jasco J-815 Spectropolarimeter (Circular Dichroism)	1
Nicolet 6700 FTIR	1
C-Technologies SoloVPE (UV/VIS)	2
Shimadzu UV-2700	1
Bruker ALPHA-A250D FTIR	1
MTEC PAC 300 Photoacoustic Detector	1



Dissolution

Dissolution Baths (Apparatus 1, 2 and 5) (Distek/Agilent/Varian/Vankel/Hanson)	48
Agilent/Varian Automatic Sampler Systems	25

Cell Banking

Grade A/B cGMP Compliant Clean Room Suites	2
Iso5/7 cGMP Compliant Clean Room Suite	1
BSL2 Fully Equipped Tissue Culture Laboratory	1
Quarantine BSL2 Tissue Culture Laboratory	1
LN2 Cryogenic Freezers for short-term storage	2
Controlled Rate Freezers	3

Virology

BSL2 Fully Equipped Tissue Culture and Viral Laboratories	
Viral Clearance Client Suites	6
GE AKTA Avant Chromatography Systems	2
GE AKTA Pure Chromatography Systems	2
GE AKTA Explorer 100 Chromatography Systems	6

Molecular and Cell Biology

BSL2 Fully Equipped Tissue Culture and Viral Laboratories	
Applied Biosystems 7500 qPCR Systems	7
Applied Biosystems 7500Fast qPCR System with AccuSEQ Software	1
Applied Biosystems Via 7 qPCR System	1
Applied Biosystems 3500 Genetic Analysis System	2
Applied Biosystems MagMax Nucleic Acid Isolation Systems	2
Applied Biosystems AutoMate Nucleic Acid Isolation System	1
Beckman Coulter Genetic Analysis system	1
Thermo Fisher iBind Flex Automated Western Blot Systems	2
ThermoFisher Nanodrop 1000	1
Mettler-Toledo UV5 Nano Small Volume Spectrophotometer	1
Molecular Devices M2, M5e, Paradigm , and Luminescent Plate Readers	12
Perkin Elmer Envision Multi-Label Plate Reader	1
Beckman Coulter Vi Cell Automated Cell Counter	4
Ultrafreezers	7
LN2 Cryofreezers	6
Bio Rad Molecular Imaging System with Quantity One software	1
Qiacube Nucleic Acid Isolation System	1
Promega MaxWell Nucleic Acid Isolation System	1
BioRad Pulse Field Electrophoresis System	1
Biotek Precision Liquid Handling System	1
Atlas CPS Light Box for UV Degradation	1
Beckman Coulter CytoFLEX S Flow Cytometer	1



Stability

Stability Chambers (80,000 ft ³)	80
LN2, -80°C up to 40°C/75% RH & Custom Chamber Conditions along with WHO Zone IV 30°C/75°C	
Large capacity, ultra-low temperature (-70°C) walk-in (equivalent to 36 reach-in chambers)	
More than 25 different set points, including all ICH conditions	
We also offer chambers that can be set to custom condition upon request	
Cycling Chambers	2
Photostability Chambers with ICH Specifications for Option 2	2
LN2 Cryogenic Freezers for short- and long-term storage	6

Microbiology

Microbiology laboratories with controlled access, equipped with HEPA filtration and BSL2 capabilities	
la Calhene soft wall isolator system with three half suit workstations, three-glove transfer isolators and two-glove transfer isolators	
EMD Millipore Integral Steritest™ systems for membrane filtration	5
Steris VHP® 1000 systems for decontamination	3
Sequence Based Microbial Identification System	2
HIAC/Royco particle counters	2
Endoscan-V systems with Biotek Microplate Readers for performing kinetic turbidimetric/chromogenic endotoxin tests	2
Aqualab water activity meter	2
Celsis Rapid Detection System for Sterility Applications	1
Bruker MALDI-TOF for Organism Identification	1
Millipore Equinox Systems	3
Millipore Symbio Systems	2
Filamatic Filling and Capping Station	1

Miscellaneous

Volumetric Karl Fischer (KF) System	5
Coulometric KF System	4
Coulometric KF Systems with oven	4
Protein Simple MFI (Micro Flow Imaging) 5100	1
Protein Simple MFI (Micro Flow Imaging) 5200	1
Thin Layer Chromatography (TLC) Sampler	2
Polarimeter	2
Refractometer	1
Rotational Viscometer	3
GE Analytical/Sievers 900/800 Total Organic Carbon Analyzer (TOC)	4
Differential Scanning Calorimeter (DSC)	1
Thermo Gravimetric Analyzer (TGA)	1
Malvern Particle Sizers	3
Westcor Vapor Pressure Osmometer	1
Advanced Instruments Freezing Point Osmometer	1
Binding Site Digital Radial Immunodiffusion (RID) Plate Reader	1

Metrology

16 full-time metrologists with extensive in-house preventive maintenance and parts inventory



Lancaster Laboratories

Global Services:

Chemistry/Biochemistry
Cell Banking Services
Facility & Process Validation
Method Development & Validation
Microbiology
Molecular & Cell Biology

Raw Materials Testing
Release Testing
Residuals & Impurities Testing
Stability Testing & Storage
Viral Clearance & Viral Safety
Professional Scientific Services®

Facilities:

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