Central Lab Overview

High-quality data and service without compromise

PPD® LABORATORIES

PPD® Laboratories Central Lab is dedicated to helping our customers make better, faster decisions about their clinical trials through a robust testing menu, consistent results and innovative data solutions.

PPD Laboratories supports customers programs where they need us, when they need us with four wholly owned laboratories in the U.S., Europe, Singapore and China that maintain a robust roster of accreditations.



Central lab services to meet your testing needs

- Anatomic pathology*
- Autoimmune, inflammatory and allergy testing
- Cell-based assays and flow cytometry
- Chemistry and immunoassays
- Chromatography and mass spectroscopy
- Genomics and molecular assays
- Hematology and coagulation
- Microbiology
- Protein analysis
- Urinalysis

*Provided through PPD Laboratories' strategic alliance with NeoGenomics

Preclarus® lab solutions to streamline your clinical trial

- Central lab database: Our proprietary enterprise and information management system is purposefully designed to manage every aspect of a central lab clinical trial
- Investigator site portal: Secure clinical site access to manage study activities (e.g. sample/subject registration, kit supply ordering and query resolution) and provides 24\7 access to real time data for investigators
- Lab data portal: Secure access for customer project teams to real-time, studywide data including the ability to visualize, organize search and manage lab data
- **3PL (third-party lab) portal:** Allows customers to track their specimens and results at partner labs
- **PM (project management) dashboard:** Real-time access for PPD project teams to program, region, site level data (labs results, quality data, budget)

PPD Laboratories has been integrating lab and clinical data in near real time for more than 10 years and has the shortest study start up timelines in the industry.



Discipline/Methodology	Example Biomarkers/Assays		Key Instrumentation/ Platform
Anatomic Pathology	Histological services Grossing, embedding, microtomy Immunohistochemistry (IHC)	 H&E, special stains and IHC stains Digitization of prepared specimens Sample interpretive reporting customized to meet client requirements 	Thermo Scientific ™ HistoStar ™ Embedding Workstation Leica® RM2245 Microtome Leica® ST5020 Multistainer Ventana® BenchMark ULTRA Aperio® AT2 Digital pathology scanner
Autoimmune/ Inflammatory/Allergy	Rheumatoid factor Autoantibodies Complement Interferon	Free light chainsInterleukinsSerum IgE	Thermo Scientific Phadia® 1000 Siemens Healthcare BN™ II Beckman Coulter Access 2 DiaSorin Liaison
Cell-based Assays/Flow Cytometry	 PBMCs Immune response T-reg assays CD 3, 4, 8, 25, 19, 20, 39, 127, etc. 	 Cell enumeration Cell surface assays TBNK panel MDSC - myeloid derived suppressor cells 	BD FACSCanto [™]
Chemistry/Immunoassay	Bone markersDiabetesToxicologyEndocrinologyMetabolicInfectious diseases	Cardiac markersDrugs of abuseOncologyRoutine chemistryLiver functionCOVID-19 antibody testing	Roche Cobas® 6000 and 8000 Beckman Coulter Access ADVIA Centaur XP Immunoassay System DiaSorin Liason®
Chromatography/Mass Spectrometry	Amino acids Nutritional (vitamins)	Diabetes (hemaglobin A1C)Bone markers (vitamin D)	Waters Acquity Sciex 4000™, 5000™, 6500™ triple quadrapoles Agilent 5975 Turbo System GCMS Waters Xevo® Tosoh G8 HPLC Analyzer
Genomics/Molecular	RNA/DNA (extraction, quantitation, concentration, purity, etc.) SARS-CoV-2 RT-PCR	Infectious diseases (HBV, HCV, HIV viral load)	 Roche MagNA Pure LC 2.0 Roche Cobas® Ampliprep Roche Taqman® Lightcycler 2.0 Abbott Molecular m2000 RealTime System bioMérieux NucliSENS® easyMag®
Hematology/Coagulation	Clotting time studies D-dimer	Factor evaluationsCBC and differential	IL ACL Top® 500 Beckman Coulter® LH 750
Urinalysis	Automated particle recognition (casts, crystals, cells etc.)	Dipstick testing (ketone, protein, bilirubin etc.)	Iris® iQ200™ and iChem® Velocity™ Siemens CLINITEK Atlas®
Microbiology	Bacteriology		Beckman Coulter MicroScan Walkaway® <i>Plus</i> Dupont RiboPrinter®
Protein Analysis	LipoproteinsC-reactive proteinHDL, LDL, VLDL and ratios	TriglyceridesProtein electrophoresis	• Roche Cobas® 8000

