



PPD® LABORATORIES
HELPING DELIVER LIFE-CHANGING THERAPIES



CENTRAL LAB

PPD[®] LABORATORIES CENTRAL LAB: EXCELLENT SERVICE, QUALITY DATA WITHOUT COMPROMISES

PPD Laboratories combines superior scientific expertise with industry-leading technologies supported by a commitment to exceptional quality. Our clients benefit from comprehensive lab services spanning bioanalytical, vaccine sciences, GMP, central lab testing and biomarkers. Our laboratory services accelerate pharmaceutical development for small molecules and biologics, allowing clients to make faster decisions about their compounds.

WHERE YOU NEED US WHEN YOU NEED US

PPD Laboratories is exactly where you need us. With strategic central lab locations in North America, Europe and Asia, we can handle all clinical trial samples from any region in the world.



Highland Heights, Kentucky

Brussels, Belgium

Singapore

Shanghai, China

CONSISTENT RESULTS ACROSS THE GLOBE

- + PPD Laboratories has a single, global database which eliminates the need to integrate and harmonize data
- + Our laboratory methodology, instrumentation, reagents and processes are standardized across all of our central lab locations
- + Assays are extensively cross-validated by all central lab locations to produce combinable data

QUALITY YOU TRUST

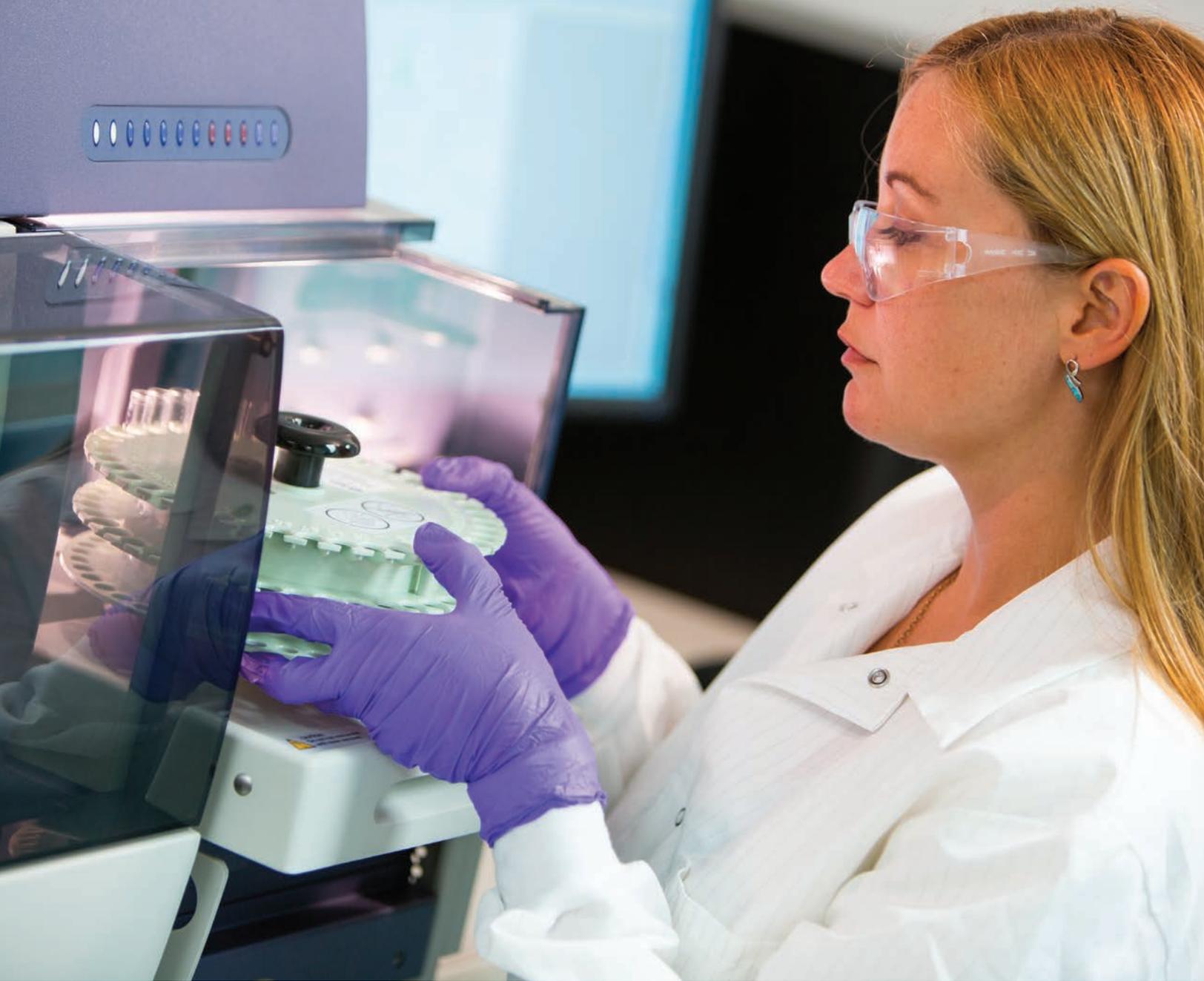
PPD Laboratories central lab is certified and accredited:

- + The College of American Pathologists (CAP)
- + Centers for Disease Control and Prevention (CDC) Lipids Standardization Program
- + National Glycohemoglobin Standardization Program (NGSP)
- + Clinical Laboratory Improvement Amendments (CLIA)
- + Commonwealth of Kentucky Cabinet for Health and Family Services
- + Ministry of Health, Singapore
- + Ministry of Health, China

LOGISTICAL INGENUITY ENSURES SAMPLE INTEGRITY

PPD Laboratories has extensive experience and an excellent delivery record to help reduce logistical costs.

- + Managing more than 50,000 sites in 77 countries
- + Coordinating more than 500,000 shipments annually
- + Achieving greater than 98 percent on-time sample delivery globally
- + Providing flexible logistical solutions
- + Leveraging expertise in local requirements



EXPERIENCE AND EXPERTISE TO MOVE YOUR PROJECTS TO SUCCESS

- + PPD Laboratories has successfully managed millions of samples in more than 2,000 Phase II-IV studies
- + PPD Laboratories' experienced staff in investigator support services provides proactive query resolution and closes 95 percent of exceptions within 48 hours to keep your studies on track
- + Global project managers lead the project teams to ensure consistency across projects, programs and service levels

SCIENTIFIC INTEGRITY THERAPEUTIC EXPERIENCE

With a strong heritage of scientific and therapeutic expertise, PPD Laboratories establishes and maintains top-quality standards for your studies. We routinely add and validate new tests and evaluate industry trends to build our capabilities and support client needs.

We perform a broad range of analyses with more than 400 lab tests, from routine safety to esoteric and specialty tests. Our testing capabilities include:

- + Auto-immune profiles
- + Biochemistry
- + Biomarkers - cytokines and growth factors
- + Clinical microbiology
- + Coagulation studies
- + Diabetic profiles
- + Drug screening
- + Endocrinology testing
- + Flow cytometry assays
- + Genotyping
- + Hematology
- + Immune function assays (ELISPOT, proliferation)
- + Infectious disease serology
- + Inflammatory disease/immune markers
- + Lipid profiles including HMG-CoA inhibition
- + Nutritional analysis by HPLC and GC-MS
- + PCR (real-time and conventional)
- + Serum proteins
- + Single nucleotide polymorphism (SNP) analysis
- + Technology transfers
- + Urinalysis
- + Virus and bacterial load by qPCR

INNOVATIVE TECHNOLOGY PROVIDES REAL-TIME COMPREHENSIVE STUDY DATA

The Preclarus® central lab database is our proprietary laboratory enterprise and information management system which contains central lab study definitions, patient data and lab test results in a single, global database. Its benefits include:

- + Simplified study definition, database setup, study management and study closeout
- + Increased attention and time spent on quality control while still delivering faster, more efficient setup and closeout timelines
- + Eliminating activities to merge and harmonize data
- + Enabling project teams to monitor study-wide data in real time
- + More informed and faster decision-making

The Preclarus central lab database combines PPD's ability to deliver data in real-time with interactive Web portals and Spotfire dashboards to provide clients and project teams with secure access to clean, studywide laboratory data and facilitate project oversight.



INTEGRATED CENTRAL LAB SERVICES FROM THE CRO YOU TRUST

As clinical research becomes more complex and geographically dispersed, the role of the central lab in the drug development process becomes even more critical. Partnering with PPD for both clinical trial management and central lab services gives you access to integrated data from around the globe.

TECHNOLOGY THAT SPEEDS DECISIONS

Preclarus is PPD's portfolio of solutions that consolidates and standardizes clinical data from multiple sources giving clients transparent, near real-time access to all clinical trial operations and patient data, which can be viewed through interactive dashboards that provide insightful data visualizations.

With Preclarus, patient data and central lab results are integrated nightly.

- + Significantly reduces custom development of study-specific formatting, validation and delivery
- + Eliminates time-intensive data transfer tasks, saves hundreds of hours over the life of a trial
- + Considerably reduces data reconciliation cycle
- + Accelerates query resolution; data are cleaned and reconciled in near real-time
- + Decision-makers have earlier access to clean data

ACCELERATE STUDIES WITH ONE PARTNER

Managing a single partner for clinical trials and central lab services provides:

- + Consolidated business administration that streamlines processes, eliminates redundancies, shortening client review time
- + Enhanced communication with a single project manager overseeing all laboratories and investigative sites streamlines the process and reduces the chance for potential errors

PPD offers the ideal integrated solution — clinical trial expertise and central lab services — supported by innovative technology.



For more information, please contact us
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www.ppdi.com/labs

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