

MEDPACE Central Labs

Biorepository Services



With the advent of precision medicine, biorepositories are a critical component of any clinical study, given the need for the highest quality specimen management. Key biorepository capabilities must include exacting processes and quality consideration, including handling, storage, and tracking. Scientific expertise is a critical aspect of these project teams.

Medpace Biorepository – a CAP accredited facility – is a key component of Medpace Central Labs and can deliver biorepository capabilities for your next specimen transfer/archiving project as well as across Phase I-IV. Medpace Labs is an industry leader in terms of customized, high quality service for the pharmaceutical and biotech clinical development industries.

Medpace, with its physician led model combined with highly degreed lab technicians and experts have the experience and knowledge to handle all biologic specimens for the development of drugs and biologics.

Medpace biorepository services are critical to support clinical development across all study phases

Medpace offers a distinct biorepository service with a spectrum of capabilities applicable to early and late phase clinical programs. Our clients find that the level of service is much different from a typical commercial storage repository.

Medpace's biorepository service is managed by a field-recognized, subject matter expert (SME) with practical specimen science and clinical experience. We ensure specimen integrity through evidence based processes and can provide efforts to develop client-specific procedures for their unique clinical protocols. These procedures can also be developed in cooperation with the client scientists and downstream application requirements; ultimately available for shared use.

Our biorepository service also provides opportunities to establish prospective studies in cooperation with Medpace's Clinical Pharmacology Unit (CPU). This connection with the biorepository service can enhance the use of specimens and/or annotated clinical data, especially useful to the client for early program decisions or managed in such a way as to track cohorts on a longitudinal basis.

Medpace offers biorepository expertise to provide onsite consultation with the client to determine the most appropriate strategy for managing the control of their specimens within the research or clinical phase environment. Our depth of knowledge allows us to manage bulk specimen moves including the transfer of individual storage units to our facility for management of specimens on a project-basis or as longer term storage.

Specimen Life Cycle Management

Capable of storing all types of specimens, including serum, plasma, urine, DNA, RNA, biopsies and slides, PBMC, and PK, at a variety of controlled temperatures down to -180°C , Medpace Labs offers extensive specimen archiving within a completely secure and continuously monitored environment with multiple, redundant systems backup. With over 7,000 square feet of archive storage space onsite and the capacity to store 2,000,000+ specimens, Medpace Labs specimen archiving is expandable to an almost unlimited capacity within the same facility. Sample archive management is fully-integrated into our Laboratory Information Management System (LIMS), ClinTrak Lab®, allowing for rapid high-volume and cost-effective specimen storage allocation and retrieval.

Medpace Labs offers the flexibility to manage specific sample handling requirements (e.g., relabeling, anonymization, aliquotting), including controlled shipments to referral specialty laboratories, on request.

Customized Logistics Services

Our end to end intelligent supply chain management system is tailored to anticipate and respond to your specific needs and provides full lot and expiry date tracking for production and on-time distribution of customized sample collection kits to sites. Medpace Labs has complete control of the preparation, packaging, and delivery of all supplies and materials necessary for sample collection and shipment. Our flexible system ensures rapid preparation and distribution of reliable study and site-specific kits following stringent quality checks.

Medpace Labs provides suitable packaging materials for ambient, refrigerated, frozen, and infectious specimens, and shipping managed through preferred relationships with the best couriers in industry based upon their documented performance in specific geographic areas.

All materials, including selected and prepared packaging and sample collection products, and all shipping procedures are compliant with International Air Transport Association (IATA) regulations.



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Biorepository Highlights

- A CAP accredited facility
- >7,000 SF Sample Management space (US, EU, Singapore & China)
- Ambient, 4°C, -20°C, -70°C/80°C capabilities & Liquid Nitrogen
- Storage of serum, plasma, urine, DNA, RNA, PBMC, PK, biopsy blocks and slides.
- Space to expand within the same facilities
- Flexibility to manage study-specific handling
 - Aliquoting, buffering, relabeling, de-identifications
- Secured access
- Continuous 24/7 temperature monitoring with alarms and text/email alerts
- Backup generator
- Powerful database for fast and efficient sample positioning and retrieval
- Medpace provides comprehensive solutions for relocating your clinical specimen collections
- Subject matter expert in biorepository field
- Procedures follow ISBER Best Practices for Repositories and NCI Best Practices for Biospecimen Resources



About Medpace Labs - Innovative Technology, Personalized Service and Flexible, Integrated Data

Our scientific and technical leaders provide guidance from the onset, reviewing protocols, advising on the best testing options, proposing optimum courier and shipping routes and delivering customized data solutions. From project managers, to medical technologists and laboratory scientists, to logistics teams, and data managers, Medpace is dedicated to providing the highest degrees of service and quality results.

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