

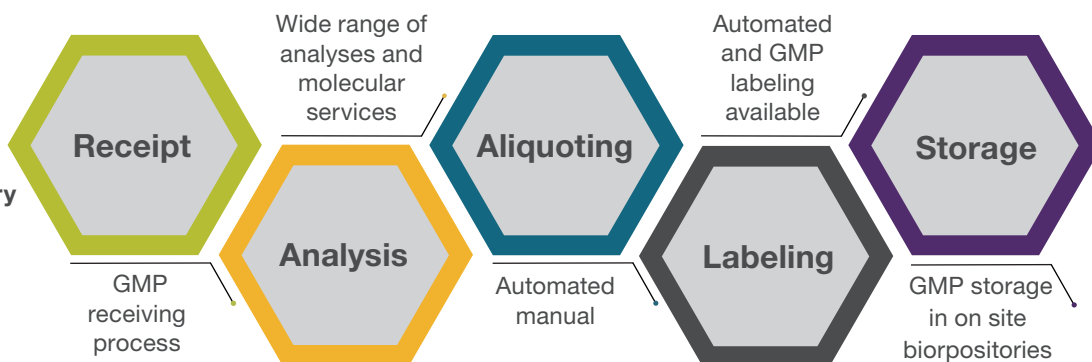
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Bioservices lab overview

Partnering with our customers for their biorepository sample needs for over 40 years

The laboratory services biorepository lab is dedicated to supporting our customers through **high-quality** specimen processing, bioanalysis services, and **leading-edge** instrumentation across **all phases** of biorepository sample management.

Our laboratories provide services throughout the lifetime of the biorepository sample



Expertise

- 5000 sq ft secured BSL2 HEPA filtered laboratory spaces
- Located in same buildings as receiving and repository
- Highly qualified and trained staff
- Expertise in high throughput processing of biological samples
- Highly automated systems featuring Hamilton Star/Starlet liquid handling systems, Scinomix labeling system, Kingfisher DNA/RNA extraction systems
- GLP compliant LIMS system for tracking of samples (cradle to grave)
- In-house quality assurance group with regularly scheduled audits
- Ongoing process improvement training and projects
- Yearly participation in proficiency testing schemes

Discipline/methodology	Example biomarkers/assays	Key instrumentation/platform
Aliquoting labeling	<ul style="list-style-type: none"> • Automated aliquoting/plating • Plate stamping • Automated blood fractionation • Sterile aliquoting • Automated labeling and scanning • Automated capping/decapping 	<ul style="list-style-type: none"> • Hamilton MICROLAB® STARs • Scinomix VX2 • Biosafety cabinets • LabElite cappers
Chemistry immunoassay	<ul style="list-style-type: none"> • Metabolic • Routine chemistry • Liver function • Lipid Panel 	<ul style="list-style-type: none"> • Piccolo Xpress (CLIA waived tests)
Genomics molecular	<ul style="list-style-type: none"> • RNA/DNA (extraction, quantitation, purity, etc.) • Next generation sequencing, targeted and whole • AmpliSeq panels • SARS-CoV-2 research panel • GMP NGS of plasmids/vectors • Single Nucleotide Polymorphism (SNP) genotyping • Human genotyping • Methylation array analysis • Disease panels • Plant/Animal genotyping • Global diversity array 	<ul style="list-style-type: none"> • QuantStudio real time PCR sstem • KingFisher™Flex purification system • Ion torrent S5 XL sequencer • Illumina iScan array system • Illumina iScan array system • Thermo Scientific NanoDrop™ 8000 • Agilent tapeStation 4200 bioanalyzer
Cell-based assays	<ul style="list-style-type: none"> • PBMC isolations • Granulocyte enrichment • Leukocyte isolations • Viability and counting • Customized aliquoting • Controlled rate freezing 	<ul style="list-style-type: none"> • Countess II/III cell counter • CryoMed freezer • CO2 incubators