Bioserve™ Precinical Genomics



A wide range of accurate and cost-effective preclinical molecular services

REPROCELL Bioserve's genomic services complement our global biorepository of human tissue samples. We also offer our services for any project. We specialize in smaller to mid-size projects, providing intensive customer service from assay design to data delivery and discussion with you about your experiment results.

Build Patient Cohorts from our Global Biorepository

REPROCELL's Bioserve Global Repository is the world's largest commercial human tissue bank, providing researchers with access to over 600,000 DNA, RNA, human tissue and serum samples derived from over 120,000 patients collected from four continents.

Bioserve human tissue samples are consistently handled according to validated protocols established by the FDA/NCI guidelines for biomarker research. All samples are fully consented for broad genomic and proteomic use and are ethically collected according to HIPAA regulations and IRB approved protocols.

Bioserve Global Biorepository Blood Based Collections

Asthma Cancer (post-treatment) Cancer (pre-treatment) Clinically-confirmed Normal Controls Congestive Heart Failure COPD Coronary Artery Disease Diabetes End-Stage Renal Disease Hypertension Lipid Disorder Lupus Metastatic Cancer Multiple Sclerosis Neurological Diseases Obesity Osteoarthritis Osteoporosis Psoriasis Rheumatoid Arthritis Stroke

Bioserve Fresh Frozen and FFPE Tissue Types

Intestine

Kidney

Larynx

Adipose
Adrenal
Aorta
Artery
Bladder
Blood
Bone
Brain
Breast
Cartilage
Cervix
Colon
Esophagus
Fallopian Tube
Gall Bladder

مطنعمم

Lip Liver Lung Lymph Node Mouth Muscle Nerve Omentum Ovary Pancreas Parathyroid Parotid Penis Peritoneum Pharynx Pituitary Prostate Rectum Salivary Gland Serum Skeletal Muscle Skin Small Intestine Smooth Muscle Soft Tissue Spleen Stomach

Submandibular Gland Synovium Testis Thymus Thyroid Tongue Tonsil Ureter Urethra Uterus Vagina Vein Vulva











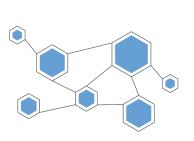
reprocell.com

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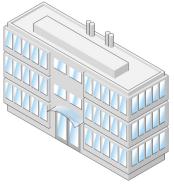
In-House Samples: The Bioserve Global **Biorepository**

Our Global Bioepository of human tissue samples is one of the largest commercial human tissue banks in the world. With more than 600.000 human serum, DNA, RNA, and FFPE samples, from over 120,000 patients on four continents, there is a good chance that the human DNA samples you need are already stored in the bioepository.



Bioserve Partner Network

The Bioserve Partner Network is a collaboration of leading academic, medical, and industry biospecimen repositories. By uniting Bioserve's market distribution channels with exceptional samples from Bioserve's Global Biorepository and network member inventories, you are ensured of getting the biosamples you need.



Prospective Sample Collections

Through REPROCELL Bioserve's orphan disease network, rare human tissue samples are finally within reach. Bioserve continues to establish procurement partnerships with specialty clinics around the United States in a number of indications/diseases, including Autoimmune, Inflammatory and Rheumatology, Urology and Oncology.

Extract Genomic Information and Discover new Biomarkers with our Molecular Services

REPROCELL Bioserve offers a full range of accurate and cost-effective preclinical molecular services both as a complement to our Global Biorepository and as a stand-alone business to our customers across industry, research, and academic sectors of life sciences.

Our ISO 9001 certified molecular biology lab guarantee customer satisfaction through effective implementation of quality management system, including the continuous improvement of the system and its processes.

Next-Generation Sequencing (NGS)

REPROCELL USA utilizes Ion Torrent[™] NGS sequencing technology, powered by semiconductor chips. This technology helps in implementing a fast and simple workflow that can be adjusted to multiple sequencing applications. The Ion Gene Studio S5 System used by REPROCELL USA provides scalable targeted NGS to support small and large projects.



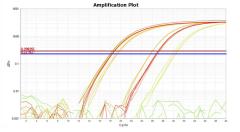
Genomics Sequencing	Whole genome sequencing	Tronomintomico	Small RNA sequencing
	Whole exome sequencing		LncRNA sequencing
	Targeted region sequencing	Transcriptomics	Degradome sequencing
	Genotyping by sequencing		Transcriptome sequencing
Epigenomics	Whole genome Bisulphate sequencing	Microbial Genomics	Microbial whole genome sequencing
	Me DIP sequencing		Metagenomic shotgun sequencing
	ChIP sequencing		Metatranscriptome sequencing
			16s/18s/ITS amplicon sequencing

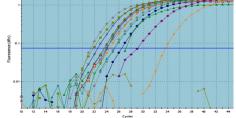
Real-Time PCR (qPCR)

Real-time PCR measures amplification of DNA/RNA at every cycle enabling quantitative measurements during the exponential phase of PCR. REPROCELL utilizes real-time PCR instrument manufactured by Applied BioSystems – the ViiA7[™] for various services.

Following are the various services that REPROCELL can provide using real-time PCR:

Quantification of DNA/RNA targets	Copy number variat
Single nucleotide polymorphisms (SNPs)	Validation of RNA se
Mutation detection	MicroRNA (miRNA) a
Gene expression analysis	Drug development
Pathogen detection	Food safety testing



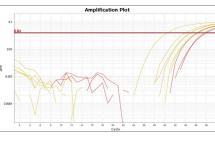


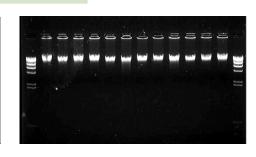
Eexpression analysis of HGPRT gene in lung cancer samples and controls.

Nucleic Acid Extraction

We provide extraction services for both DNA and RNA. We utilize non-organic, organic, and silica-based column methods. Depending on he sample type and the quality and yields of nucleic acids that are required. Sample types from which we have extracted DNA include:

Whole blood	Solid tissues	Feces
Buffy coats	Tissues from FFPE blocks	Nails
Lymphocytes	Saliva	Tissue
PBMC	Buccal swabs	Tissue
Plasma	Cytobrushes	Leaves
Serum	Nasal scabs	Roots
Blood clots	Hair follicles	
Blood spots	Urine	



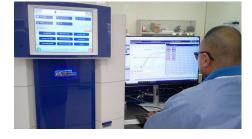


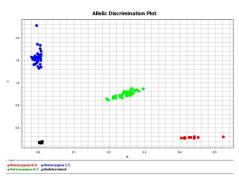
RT-PCR analysis of ctDNA extracted from plasma of cancer subjects.

ations

- equencing data
- analysis
- research

Detection of bacteria Helicobacter pylori in gastric cancer samples.





Allelic discrimination plot: homozygous (blue), heterozygous (green), and homozygous AA (red)



We have been successful in RNA extraction from whole blood, buffy coats, PAXgene tubes, lymphocytes, cultured cells, plant material, cartilage, fresh and frozen tissues and various bacteria.

Plate ID OD easy access sets-1	Measurement complete.	1510
ample Type DNA-50 -	AlAdive.0x/0f mm1 200 0	sits ng/ul
	Active 1 1 A5 Sample 1 mm 1 abs. 10.06 A-200 10.00	eq/el
	Sample 10 BWA2315-218 A 200 9 060 260/280 1.87 290/230 1.78	903.0
	Active 1 1 05 Sample 1 mm 1 abs. 14.66 A200 14.66	ng/el
	Sample 10 @WA2315-219 A 280 7.737 260/280 1.88 280/230 1.91	732.8
	Active II 1 CS Sample II res1abs 20.90 A-200 20.90	na/el
	Sangle 10 BW/A2315-220 A 280 11.67 260/280 1.79 280/230 1.77	1045
	Active # 1	ng/el
	Sangle 10 BWA2215221 A 200 14.31 260/280 1.86 260/230 2.00	1325
	Active 1 1 E5 Sample 1 ren 1 ads. 10.28 A 280 10.28	na/si
1 2 5 2 12	Sample 10 @W/A2015-222 A 280 5.697 260/280 1.80 260/280 2.61	514.0
000000000000000000000000000000000000000		- na/el
•••••• <u>•</u> ••••		944.3
•••••	Active # 1 G5 Sample # 1 rm1abs 20.23 A200 20.23	ng/st
•••••• <u>•</u> ••••	Sample 1D BW/A2315-224 A-290 11.06 260/280 1.83 260/230 1.84	1011
••••••		- na/e
	Sangle 10 @wi42215-225 A 280 13.73 260/280 1.79 260/290 1.97	122

Absorbance read-out of DNAs using a Nanodrop UV spectrophotometer

- culture cells
- culture media

DNA extracted from solid tissues electrophoresed on a 1% agarose gel.



Biomarker Discovery and Validation

Our in-house expertise in genotyping assay design, oligonucleotide synthesis and SNP validation enable us to deliver accurate data, quickly and cost-effectively. We routinely work with customers to develop customized strategies for particular genotyping projects.

We specialize in smaller to mid-size genotyping projects using Real-Time PCR (RT-PCR), providing extensive customer service from assay design to data delivery and discussing your experiment results.

By partnering with REPROCELL for your genotyping projects, you can expect:

Expert assay design - Choose from our pre-designed panels or have us design a variety of custom assays for your project.

Fast delivery times — Most data are delivered within 5 days of completion of analysis.

Data analysis assistance — Interpret your data easily with our intuitive data reports.

Strict quality control measures — all of our assays are validated in duplicate using 23 pairs of high quality "polymorphism discovery resource" DNA from Coriell. We include up to three of these controls of known genotypes in analysis with customer samples (if plated according to our templates), as well as three negative (no DNA) controls. All control data are provided to the customer at no additional charge.



https://www.reprocell.com/genomic-services





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