

# Your Total BioServices Solution

Bringing together the experience, resources, and infrastructure

**Biobank and repository. Assay services. Normal and disease state sample sourcing and processing. Cellular/immunoassay products. Clinical trial support**

Nobody brings it all together like SeraCare



### Biobank and repository

Our turnkey approach means your samples are securely stored, easily accessible, and available for processing and analysis to your specifications

### Assay services

Experienced technicians and PhD level scientists support your research with assays, conducted in our labs dedicated to virology, molecular biology, cellular immunology, and cell culture

### Normal and disease state samples

Materials sourced by our in-house team — characterized and processed to meet your requirements. Extensive sample management and logistics capabilities

### Cellular and immunoassay products and services

Immuno-monitoring tools including PBMCs, ELISpot and ELISA kits, cytokine and antibody arrays, tissue microarrays

### Clinical trial support

Expertise in sample kit design, sample collection, visit specific kits (VSK) and consumables, sample collection, logistics, processing, storage, retrieval, and assay development

### Safety, Security, and Quality Profile

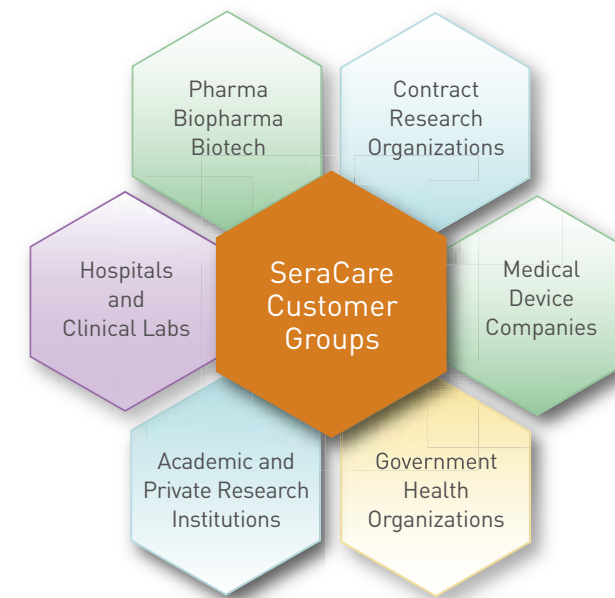
- Biobank and repository facilities offer redundant power systems, standby freezers, 3,000 gallon back-up LN<sub>2</sub> tank, automated (BSI-II) inventory tracking and management system, internet accessible data, 24 x 7 restricted access security
- Systematic and extensive staff training programs
- Certified shipment of dangerous goods, compliant with IATA, DOT, ICAO regulations
- SeraCare facilities are ISO 9001 and 13485 certified, and comply with cGMP, GLP, and CLIA standards

# Your BioServices Partner

Through every stage of discovery, development, and clinical trial

**SeraCare is your outsourcing solution, with more than 25 years of experience**

- When you need to accelerate your pipelines and key decision making
  - We bundle the project management, facility infrastructure, and organizational capacity necessary to support you
- When you need to source, store, process, or analyze samples
  - We deliver the services and research required to get the work done
- When internal logistics and organizational structure impact your delivery timelines
  - We provide the scientific expertise, lab technology, and experience to manage and meet your needs — from under one roof, with a single point of contact and independent results

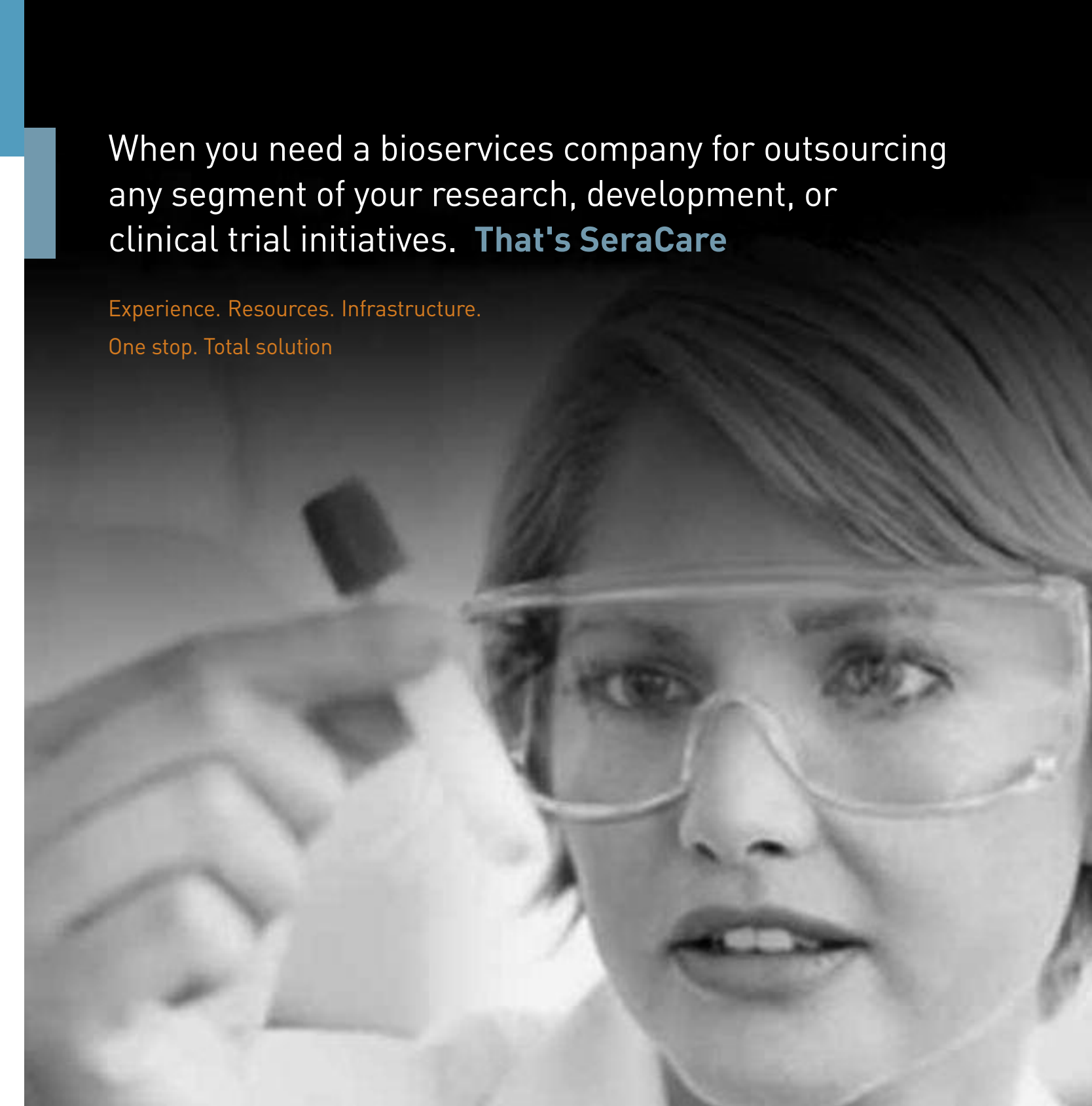





**Anchored by our state-of-the-art biobank and repository**

- Over 19 million samples stored, including cell banks, sera, plasma, tissues
- 80,000 sq. ft., divided over two secure locations

When you need a bioservices company for outsourcing any segment of your research, development, or clinical trial initiatives. **That's SeraCare**

Experience. Resources. Infrastructure.  
One stop. Total solution



	DISCOVERY	PRE-CLINICAL	CLINICAL	COMPANION DIAGNOSTICS
<b>The SeraCare Biobank and Repository</b>	Sample collection (normal and disease state), logistics, receipt, labeling, database entry, management Sample retrieval, logistics, processing Sample storage: room temp, 4°C, -20°C, -80°C, -150°C Available inventory and custom sourcing of characterized normal and disease state materials	Available inventory and custom sourcing of characterized normal and disease state materials Sample collection (normal and disease state), logistics, receipt, labeling, database entry, management Sample processing Sample storage: room temp, 4°C, -20°C, -80°C, -150°C	Sample collection (normal and disease state), logistics, receipt, labeling, database entry, management Visit specific kits (VSK) Sample storage: room temp, 4°C, -20°C, -80°C, -150°C Sample retrieval, logistics, processing Available inventory and custom sourcing of characterized normal and disease state materials	Sample collection (normal and disease state), logistics, receipt, labeling, database entry, management Sample processing
<b>Cellular Immunology Services</b>	Human PBMC and PBMC subset isolations Cell based assays – cytokine, ELISpot, flow cytometry	Human PBMC and PBMC subset isolations Cell based and immunotoxicity assays – apoptosis, cell morphology, cytokine, proliferation, flow cytometry, HIV p24	Human PBMC and PBMC subset isolations Cell based assays – cytokine, ELISpot, flow cytometry, HIV p24 Immunohistochemical assays	Immunohistochemical assays
<b>Virology Services</b>	Viral culture, characterization, detection, quantitation EBV transformations Viral infectivity studies and assays Characterized panels – e.g., HIV 1 subtypes Cell banking		Viral culture and infectivity assays – e.g., HIV p24 Viral quantitation and typing Viral load by nucleic acid testing Viral inactivation – UV treatment	
<b>Molecular Biology Services</b>	Nucleic acid isolations – genomic DNA, plasmid DNA, RNA Nucleic acid quantitation, aliquoting DNA fingerprinting, library screening Quantitative RT-PCR, SNP analysis, DNA sequencing Molecular cloning, whole genome amplifications Cell line transformations Recombinant DNA and RNA expression	Quantitative RT-PCR SNP analysis DNA sequencing	Viral load by nucleic acid testing DNA sequencing Genotyping Nucleic acid extraction and purification from clinical samples – blood, buccal swabs, saliva, tissues OEM manufacturing	Quantitative RT-PCR RNA expression OEM manufacturing
<b>Cell Culture Services</b>	Cell culture and scale up Recombinant DNA and RNA expression Cell plating Cell based assays	Primary cell isolations and culture Cell plating Cell based assays	Primary cell isolations and culture	
<b>Research Products</b>	Human PBMCs and PBMC subsets – normal and disease state ELISpot, CryoMedia™, and HIV-2 Western blot kits Protein and antibody (e.g., cytokine) arrays Human and bovine serum albumin Processed human serum Cell culture media Characterized disease state and custom panels ACCUTYPE™ HIV cultured virus and purified HIV-1 RNA	Human PBMCs and PBMC subsets – normal and disease state	Sample collection kits (e.g., VSK) -many configurations available. Human PBMCs and PBMC subsets -normal and disease state ELISpot, CryoMedia™ and HIV-2 Western blot kits	Protein and antibody (e.g., cytokine) arrays Custom panels – linearity, proficiency, seroconversion Development of test kit controls and calibrators OEM manufacturing
<b>Assay Design, Development, and Validation Services</b>	Assays: viral, molecular, biochemical, cell based, immuno Biological assay development Independent report generation	Cell based and immunotoxicity assays – apoptosis, cell morphology, cytokine, proliferation, flow cytometry, HIV p24 Biochemical assays	Assays: viral, molecular, biochemical, cell based, immuno Serum and plasma analysis Independent re-validation of established assays Clinical trial assay report generation	Biomarker identification, characterization, validation – Independent re-validation of established assays – Immunohistochemical assays; serum and plasma analysis Biochemical assays