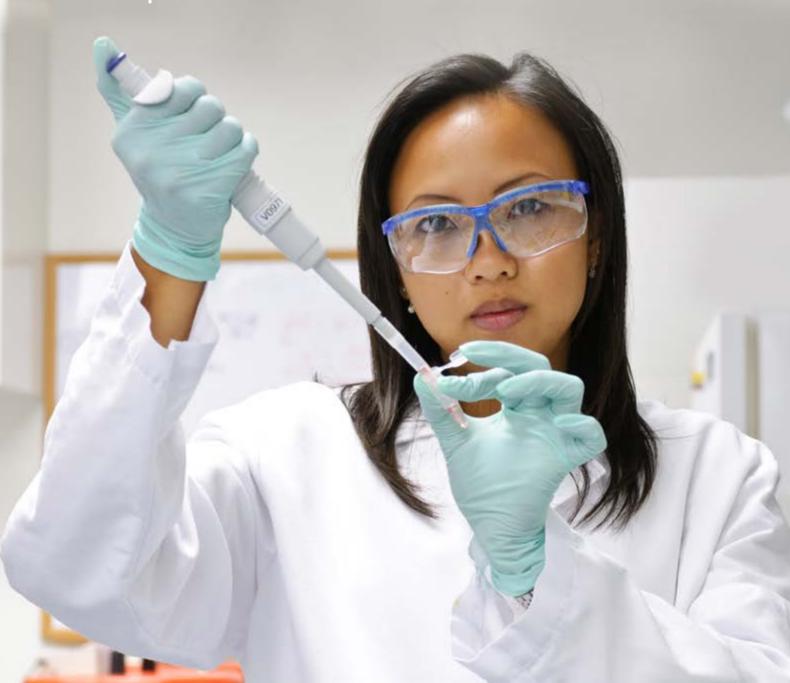
Lonza CellBio Services

Custom Solutions to Meet
Your Unique Research Needs



Satisfy your unique research needs

In an ever evolving field of biologic research, nuanced research requires tools which are not always readily and commercially available. For a researcher, solving these needs can be difficult due to a variety of reasons including material sourcing, technical knowledge, capacity, and the risk of production failure. Supported by decades of cell isolation experience, Lonza has built an extensive catalog offering consisting of quality primary cells, media, reagents and devices to assist in drug development and basic research. For when these tools are insufficient, partner with Lonza CellBio Services for tailored tools and custom services and let us help you meet your unique research needs.

Custom cell isolation services

Our staff with over 30 years of custom isolation experience is here to assist in determining the optimal method to isolate your desired cell type. With the capability to perform enzymatic digestions, mechanical separation, density gradient centrifugation, immunomagnetic separation, selective culturing, we are ready to find the ideal isolation method to yield optimal results. Isolations can be further optimized by utilizing Lonza's extensive range of cell culture media, alternative media. Final products can be available fresh (plated or suspension), cryopreserved (cell suspension or pellet), or further utilized for RNA/DNA isolation or immortalization services to suite your needs.

Modifications to existing catalog products

CellBio Services provides the option to manipulate our standard catalog products to suit your experimental needs. Examples include:

- Additional donor characteristics
- Donor-matched cell sets
- Pooled cells from multiple donors
- Cell expansions
- Additional testing

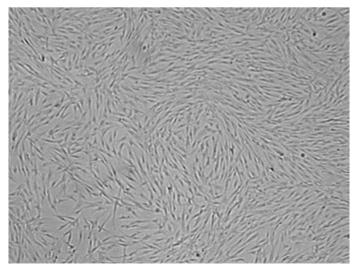
Cell isolations from various tissues

Through our extensive tissue sourcing, CellBio Services goes beyond our standard offering to provide cell types of interest from a variety of tissues. Each project adheres to the same ethical sourcing procedures and quality systems of Lonza Primary Cell Systems. Lonza can offer custom isolations from a wide range of tissue sources to meet your needs including:

Lonza CellBio Services Including:

- Custom Cell Isolation Services
- Custom Cell Culture and Testing Services
- Custom Research Media and Reagents
- And More

- Species: human, primate, porcine, canine, feline, murine, and others
- Diseases: Diabetes, hypertension, heart disease, skin diseases (psoriasis, atopic dermatitis, etc.), lung diseases (cystic fibrosis, asthma, idiopathic pulmonary fibrosis, COPD, etc.), and more
- Donor Variety: Availability of specific donor characteristics including age, gender, ethnicity, BMI, etc



Lung Fibroblasts from donor with Idiopathic Pulmonary Fibrosis at P3

Research media and reagents

When standard catalog media offerings do not quite meet your research needs, CellBio Services provides the option to manipulate our standard catalog media products to suit your experimental research needs. Alternatively, CellBio Services can generate completely new media based on your supplied formulation. Our production facilities can accommodate custom research use only grade liquid formulation productions from 500 mL up to 10,000 L. If you prefer powder, our production facilities can accommodate custom research grade powder formulation productions from 1 kg to 7,000 kg. Examples include:

- Lonza primary and stem cell growth and differentiation media with added/removed components and/or in custom fill volumes or vessels
- Lonza Classical/Specialty media with added/removed components (i.e. SILAC or phenol red free media)
- Custom packaging (Vials, Bottles, Bags, Drums, etc)
- Custom fill sizes

Custom cell culture and testing services

Primary Cell and Cell Line Expansion Services

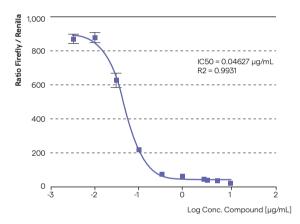
Use Lonza as an extension of your cell culture facility. Lonza's CellBio Services team can expand your primary cell or cell line according to specific standards and cryopreserve the cells in your preferred format. This will allow you to focus on your assays and results. We can provide:

- Expansions of adherent cell types in batches up to 2×10^{10} cells, or suspension cell types in batches up 5×10^{10} cells
- Batch sizes up to 1500 vials
- Production capabilities in a variety of formats including CellStacks, culture flasks, closed system and suspension cultures (up to 12L)
- Generation of master and working cell banks
- Batch Testing and CoA generation

Cell characterization and batch screening

The CellBio Services team has extensive cell biology expertise. Harness this experience and let us perform your functional cell testing of proteins or small molecules with existing or custom assay protocols. This can be performed on the recombinant cell lines we have generated, or a specific primary cell type in either 2D or 3D Cell Culture Systems. Additionally, allow Lonza to perform the batch screening tests you require before committing to a lot of Lonza's catalog primary cells. We offer:

- Pre-screening/batch testing of Lonza primary cells
- Compound testing
- Small scale functional assay testing with existing or custom protocols
- Assay optimization
- SOP generation



Compound treatment of sarcoma cells stably expressing an inducible luciferase reporter construct.

Additional services

RNA and DNA services

Through CellBio Services, RNA and DNA can be isolated from Lonza custom or catalog cell types, or customer supplied cells. Our suite of RNA and DNA Services includes:

- RNA and DNA isolations from custom isolated cells, Lonza catalog cells, or customer supplied cells
- Quantity and quality Assessments (Yield/concentration, A260/A280 and A260/A230 ratios)
- cDNA generation for PCR
- Relative quantification PCR

Contact Us

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