



## Cell line services

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# Primary Cell Line Creation and Master Cell Line Banking

IBX offers a full range of customizable bioprocessing and analytical services, using our experience in protocol development to ensure the optimal technology is used for each application and sample type.

## Cell Line Establishment & Processing Services

- End-to-end solutions for cell line establishment, processing, maintenance, analysis, and storage
- Liquid and vapor phase LN2 storage in laser etched 2D barcoded glass ampules
- Nucleic acid extraction and genomic analysis of all cell lines
- Flow sorting of blood cell populations
- Isolation of Cryopreserved Lymphocytes (CPLs) and Peripheral Blood Mononuclear Cells (PBMCs) from a variety of tissues, including whole blood, spleen, lymphnodes, and leukapheresis bags
- Lymphocyte Transformation from a variety tissues and Cryopreserved Lymphocytes with a > 99.8% rate of success at creating lymphoblastoid cell lines (LCLs)



### Establishment



### Maintenance



### Quality Control

- Comprehensive Quality Control of all Cell Lines which includes mycoplasma testing and identity verification using the RUID™ Identity and Performance Panel
- Distribution of Lymphoblastoid Cell Lines as cryopreserved ampules or cultures of live cells

## CRISPR Gene Editing Services

- Wide range of modifications available using a variety of approaches including:
  - Precise point mutation/small deletion/insertion
  - Insertion and deletions
  - Large genomic fragment deletion
  - Gene / reporter knock in
- Quality control services inclusive off:
  - Sanger sequencing of potential off-target loci
  - Guaranteed clonality, sterility and viability,
  - Pluripotency verification
  - Cell identity confirmation using SNPtrace

## Tissue Biopsy Services

- Pre-assembled barcoded kits for collection of skin punches or nasal epithelial samples
- Isolation, expansion, and cryopreservation of primary cells including fibroblasts, nasal epithelial and other cell types and distribution as cryopreserved ampules or cultures of live cells
- Comprehensive Quality Control of all Primary Cell Lines including mycoplasma testing and identity verification using the RUID™ SNPtrace

## Stem Cell Line Derivation & Processing Services

- Extensive range of Induced Pluripotent Stem Cell (iPSC) reprogramming services utilizing a variety of primary source cell types, including fibroblasts, olfactory epithelial cells, lymphocytes, and lymphoblastoid cell lines
- iPSC derivation and expansion are optimized for reprogramming efficiency using Sendai virus or episomal vectors
- Standard Quality Control of all iPSC Lines includes mycoplasma testing and identity verification using the RUID™ SNPtrace, which can also be used to confirm primary source cells / iPSC derivative relationship
- Extensive Stem Cell Quality Control Testing:
  - Immunocytochemistry and FACS analysis of expression of markers of stemness

- Assessment of iPSC genomic stability by G-banded karyotyping and SNP arrays
  - Demonstration of stemness using in silico analyses of whole transcriptome gene expression data
  - Demonstration of pluripotency using in vitro assays such as embryoid body formation
- iPSCs derived in client laboratories can be expanded, subjected to quality control analysis, cryopreserved for storage, and distributed cryopreserved ampules (accompanied by a certificate of analysis)

## Sample Storage & Management

Capabilities:

- Mechanical: -70°C, -80°C, -20°C, 5°C
- Liquid Nitrogen: -190°C (liquid and vaporphase storage)
- Automated: -80°C & -190°C
- Bulk or non-bulk: 15°C to 27°C

Our services maximize the discovery process and protects precious biomaterial resources for future analyses allowing stakeholders to optimize the value of biological assets. Innovative workflows, cutting edge analytical approaches, and robust biomaterial storage processes enhance the value of any collection.



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