



Livestock Labs – Porcine Dermal Fibroblast Cell Line (Engineered for Long-Term Expansion)

Product overview

Engineered porcine dermal fibroblasts derived post-mortem from a commercial livestock donor sourced through an FSIS-inspected, USDA-regulated U.S. facility. The line was modified via HDR-mediated targeted cassette integration, incorporating an immortalization factor and pro-proliferative factors to support sustained proliferation and long-term expansion for cultivated animal product research and process development.

Sourcing and compliance

Donor animals were raised under IACUC-approved protocols within an AAALAC-accredited program following Agriculture Guide standards. A traceability and documentation package is provided to support customer quality systems and future regulatory dossiers (end-user responsibility).

Specifications

- **Species:** Porcine (*Sus scrofa*)
 - **Cell type:** Fibroblast
 - **Tissue type:** Dermal connective tissue
 - **Donor:** Male, 6 months
 - **Engineering:** HDR-mediated targeted cassette integration (immortalization + pro-proliferative factors)
 - **Identity/characterization:** Morphology images; karyotype; transcriptome profiling with PCA-based identity assessment; expression confirmation of cassette elements (qRT-PCR summary)
 - **Validated up to passage:** P44
 - **Doubling Time:** 28 to 41 hours
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What's included

- **One clonal variant:** LLPF001
 - **One-year research license** (academic and industry research pricing available)
 - **Documentation pack** including: donor and sourcing summary, characterization summary, morphology images, long-term culture identity (karyotype + transcriptome PCA), recommended culture media, and storage/growth protocols
 - **Technical support** plus ongoing media optimization updates and protocol refinements during the license term (no additional subscription required)
 - **Additional services (quoted separately):** Custom engineering available upon request (targeted edits and trait integration).
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Documentation and COA

A lot-specific Certificate of Analysis (COA) and documentation pack are provided with shipment and/or available upon request for qualified buyers.

Intended use and restrictions

For Research Use Only (RUO). Not for human or animal therapeutic use, diagnostic use, or consumption. End users are responsible for ensuring suitability for their specific applications and any regulatory submissions.