NEUROMICS

Type 1 Diabetes Human Dermal Fibroblast Growth Medium

Catalog #: FGM008

Product Size: 500 ml

Storage: 2-8°C

Shipping: Polar packs

GENERAL INFORMATION

Type 1 Diabetes Fibroblast Growth Medium is a specialized, complete formulation designed to optimally support the in vitro expansion and maintenance of human dermal fibroblasts (HDFs) isolated from donors with Type 1 Diabetes (T1D). This medium is engineered to account for the unique metabolic and secretory phenotype of T1D fibroblasts, promoting robust growth while potentially preserving disease-relevant characteristics such as altered extracellular matrix (ECM) production and inflammatory secretome..

Product is for Research use only.

STORAGE AND USE

The medium can be stored at 2-8°C. The product has a shelf life of 60 days from the date of opening. See expiration date on bottle.

CAUTION

Proper precautions must be taken to avoid exposure. Always wear proper protective equipment (gloves, safety glasses, etc.) when handling these materials. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.

KEY FEATURES

- **Disease-Specific:** Tailored to support the distinct metabolic needs of T1D-derived fibroblasts.
- **Serum-Free & Defined:** Eliminates batch-to-batch variability, ensuring experimental consistency and reproducibility.
- **Phenotype Maintenance:** Formulated to help maintain the in vivo disease phenotype during in vitro culture.
- **Ready-to-Use:** Pre-mixed and sterile-filtered for convenience.

TYPICAL GROWTH PERFORMANCE

When used according to instructions, this medium supports:

- **Sustained Proliferation:** Consistent growth rates over multiple passages.
- **Morphology:** Typical spindle-shaped, elongated fibroblast morphology.
- **Disease-Relevant Markers:** Potential for sustained expression of markers associated with the diabetic fibroblast phenotype (e.g., specific ECM proteins like Collagen I & III, and stress markers).
- **Functional Assays:** Cells are suitable for downstream assays investigating fibrosis, wound healing, metabolic activity, and inflammatory responses in the context of T1D.

www.neuromics.com

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QUALITY CONTROL DATA

Every lot is rigorously tested for performance and safety.

Test	Specification	Typical Results
Appearance	Clear, red liquid.	Complies
pH	7.2-7.4	7.3
Osmolality	300 - 330 mOsm/kg	315 mOsm/kg
Glucose Concentration	25 mM (High-Glucose)	25 mM
Sterility	No microbial growth after 14 days.	Complies
Mycoplasma	Not Detected	Not Detected
Endotoxin	≤ 1.0 EU/mL	< 0.5 EU/ml
Growth Performance	Population Doubling Time (PDT) of ≤ 36	~32 hours

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