



## Type 1 Diabetes Human Dermal Fibroblast Growth Medium

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**Catalog #:** FGM008

**Product Size:** 500 ml

**Storage:** 2-8°C

**Shipping:** Polar packs

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### 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.

### FOR RESEARCH USE ONLY

NEUROMICS REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. v1-09809

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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             | $\leq 1.0$ EU/mL                            | $< 0.5$ EU/ml   |
| Growth Performance    | Population Doubling Time (PDT) of $\leq 36$ | ~32 hours       |

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