

Version : 04  
Update : 05/08/2023

# CERTIFICATE OF ANALYSIS

## Product Information

|                      |  |
|----------------------|--|
| Product Name         | LIF, Human   |
| Cat. No.             | Z02681   |
| Lot No.              | E2401004   |
| Size:                | Specified on product label   |
| Formulation:         | Lyophilized after extensive dialysis against PBS.  |
| Reconstitution:      | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O up to 100 µg/ml.   |
| Stability & Storage: | Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles. |

## Quality Control

| Test Items          | Specifications   | Results |
|---------------------|--|---------|
| Appearance          | White Freeze-dried Powder  | Pass    |
| Purity              | > 95% as analyzed by SDS-PAGE  | Pass    |
| Endotoxin Level     | < 0.2 EU/µg of protein by gel clotting method  | Pass    |
| Biological Activity | ED <sub>50</sub> < 0.2 ng/ml, measured by a cell differentiation assay using TF-I cells, corresponding to a specific activity of > 5.0 × 10 <sup>6</sup> units/mg. | Pass    |

Date: 02/06/2024

Approved by: *Dandan Yao*

Quality Department

**For research use only. Not intended for human and animal therapeutic or diagnostic use.**

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