

Version : 04  
Update : 05/08/2023

# CERTIFICATE OF ANALYSIS

## Product Information

|                      |   |
|----------------------|---|
| Product Name:        | IL-13 Variant, Human  |
| Cat. No.:            | Z02711  |
| Lot No.:             | M2401001  |
| Size:                | Specified on product label  |
| Formulation:         | Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.2, 5% trehalose.   |
| 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 sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. |
| Stability & Storage: | Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.                              |

## Quality Control

| Test Items          | Specifications  | Results |
|---------------------|---|---------|
| Appearance          | White Freeze-dried Powder   | Pass    |
| Purity              | > 97% as analyzed by SDS-PAGE<br>> 97% as analyzed by HPLC  | Pass    |
| Endotoxin Level     | < 1 EU/µg of protein by LAL method  | Pass    |
| Biological Activity | Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using human TF-1 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10 <sup>6</sup> IU/mg. | Pass    |

Date: 01/09/2024

Approved by: *Dandan Yao*

Quality Department

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

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