

Version :03  
Update : 05/15/2022

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name:	IL-13 Variant, Human
Cat. No.:	Z02711
Lot No.:	M2303002
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 > 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: 04/17/2023

Approved by: *Dandan Yao*

Quality Department

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

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