

Version : 04  
Update : 05/08/2023

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name:	IL-31, Human
Cat. No.:	Z02717
Lot No.:	M2308008
Size:	Specified on product label
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.
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 specific activity is determined by inducing STAT3 activation using human U-87 MG cells. 5.0 ng/ml of rHuIL-31 can effectively induce STAT3 activation.	Pass

Date: 08/30/2023

Approved by: *Dandan Yao*

Quality Department

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

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