

Version :04
Update : 05/08/2023

CERTIFICATE OF ANALYSIS

Product Information

Product Name	TNF- α , Human
Cat. No.	Z01001
Lot No.	E2305007
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 ₂ O or PBS up to 100 μ g/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	> 98% as analyzed by SDS-PAGE > 98% as analyzed by HPLC	Pass
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method	Pass
Biological Activity	ED ₅₀ < 30.0 pg/ml, measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D, corresponding to a specific activity of > 3.3 \times 10 ⁷ units/mg.	Pass

Date: 06/15/2023

Approved by: 

Quality Department

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

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