

Version :04
Update : 05/08/2023

CERTIFICATE OF ANALYSIS

Product Information

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| Product Name: | GM-CSF, Human (P. pastoris-expressed) |
| Cat. No.: | Z02190 |
| Lot No.: | E2101008-A |
| Size: | Specified on product label |
| Formulation: | Lyophilized from a 0.2 μ m filtered solution in 10 mM Tris-HCl, 4% Mannitol, 1% Sucrose, pH 8.5. |
| 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 distilled water up to 100 μ g/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 | > 95% as analyzed by SDS-PAGE > 95% as analyzed by RP-HPLC | Pass |
| Endotoxin Level | < 1 EU/ μ g of protein by LAL method | Pass |
| Biological Activity | Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 6-30 pg/mL. | Pass |

Date: 05/23/2023

Approved by:  Dandan Yao

Quality Department

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

生产商：南京金斯瑞生物科技有限公司 江苏省南京市江宁区科学园雍熙路28号

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28 Yongxi Road, Jiangning District, Nanjing, Jiangsu, China