



**CERTIFICATE OF ANALYSIS**  
**Granulocyte Macrophage Colony Stimulating Factor**  
**GM-CSF**  
**Human Recombinant Powder**  
**(Catalog Number 300-124P)**

Lot Number: G423083

Date Received: \_\_\_\_\_

Storage Temperature:  $\leq -10^{\circ}\text{C}$

Product Expiry\*: \_\_\_\_\_

For Cell culture, Further Manufacturing or Research use Only. Not for Direct Therapeutic Use.

\*Expiration Date is one year from the date of receipt when stored at  $-20$  to  $-80^{\circ}\text{C}$

| Test                                 | Methodology                   | Analysis              |
|--------------------------------------|-------------------------------|-----------------------|
| Biological Testing                   |                               |                       |
| Endotoxin                            | USP <85>/ EP 2.6.14           | 0.1 EU/ $\mu\text{g}$ |
| Biological Testing                   |                               |                       |
| Purity                               | Coomassie Staining            | >95%                  |
| Biological Activity ED <sub>50</sub> | TF-1 cell proliferation assay | 0.13 ng/mL            |

The testing that has been performed as part of this lot release has been reviewed by Quality Assurance personnel and has confirmed that the testing meets the specifications presented on this Certificate of Analysis.

Korrina Nicewonger  
Name

QC Associate II  
Title

24 JUL 2023  
Date