

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF), Human
Cat. No.:	Z02983-10; Z02983-50; Z02981-1
Lot No.:	B60091212
Size:	10µg/vial; 50µg /vial; 1mg/vial
Storage Condition:	Lyophilized recombinant human Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhGM-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.

Quality Control

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE)	> 95%	Conformed
Purity (HPLC)	> 95%	Conformed
Specific Activity	< 0.2 ng/ml	0.15 ng/ml
Molecular Weight	22-28kDa	Conformed
Bacterial Endotoxin	< 0.2 EU/µg	Conformed

Caution:

For laboratory use only. Not for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188.

Certified by: 

Date: 12/15/2012

Bioprocess Department