

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name:	GM-CSF, Rat
Cat. No.:	Z02992-10; Z02992-50; Z02992-1
Lot No.:	B60111511
Size:	10µg/vial; 50µg /vial; 1mg/vial
Storage Condition:	Lyophilized recombinant Rat Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rrGM-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& HPLC)	> 95%	Conformed
Specific Activity	< 5 pg/ml	Conformed
Molecular Weight	16-26kDa	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: Joe Wang Date: 11/15/2015  
Bioprocess Department