

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name: Macrophage-Colony Stimulating Factor (M-CSF), Mouse

Cat. No.: Z02930-10; Z02930-50; Z02930-1

Lot No.: B60041410

Size: 10µg/vial; 50µg /vial; 1mg/vial

Storage Condition: Lyophilized recombinant Mouse Macrophage-Colony Stimulating Factor (M-CSF) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rmM-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) can be added. Avoid repeated freeze-thaw cycles.

### Quality Control

Test Items	Specifications	Results
Physical Appearance	White Freeze - dried Powder	Conformed
Purity (SDS-PAGE & HPLC)	> 95%	Conformed
Biological Activity (ED <sub>50</sub> )	<3 ng/ml	0.67 ng/ml
Molecular Weight	M <sub>r</sub> ~44 kDa	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: 10/20/2014

Protein Products Department