

## CERTIFICATE OF ANALYSIS

### Product Information

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Product Name:	GM-CSF, Mouse
Cat. No.:	Z02979-10; Z02979-50; Z02979-1
Lot No.:	B60021908
Size:	10µg/vial; 50µg /vial; 1mg/vial
Storage Condition:	Lyophilized recombinant Mouse Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, mGM-CSF should be stable up to 1 week at 4°C or up to 3 months at -20°C.

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### 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> )	< 0.05 ng/ml	Conformed
Molecular Weight	15~19 kDa	Conformed
Bacterial Endotoxin	< 0.2 EU/µg	Conformed

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### 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: 09/23/2019  
Protein Products Department