

**Certificate of Analysis**



Product Name	Recombinant Human M-CSF (E.coli-expressed)	Batch No.	20241211
Cat. No.	Y06721H	Storage Conditions	≤-20℃
Manufacturing Date	2024.12.11	Expiration Date	2027.12.11
Testing Basis	Specification for Recombinant Human M-CSF		
Testing Parameters	Quality Specification	Testing Result	Result Judgment
Appearance	White powder, Clear colorless liquid after resolution	White powder, Clear colorless liquid after resolution	Compliance
pH	7.0 - 8.0	7.5	Compliance
Protein Concentration	45.0 - 55.0 μg	49.6 μg	Compliance
Hydration	≤2.5%	1.5%	Compliance
Purity (SDS-PAGE)	≥95.0%	98.7%	Compliance
Relative Bioactivity	The relative biological activity should be 70%-130% comparison to standard reference	107%	Compliance

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Testing Parameters	Quality Specification	Testing Result	Result Judgment
Bacterial Endotoxin	≤200.0 EU/mg	≤200.0 EU/mg	Compliance
Sterility Test	Compliance	Compliance	Compliance
Conclusion	Compliance		



Reported by / Date: Jiang Li 2024.12.29  
Checked by / Date: Jing Meng 2024.12.29  
Approved by QA / Date: Yanning Zhou 2024.12.29

