

Version 02

Update: 06/07/2021

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	GM-CSF, Human (P. pastoris-expressed)
Cat. No.:	Z02190
Lot No.:	R50041912
Storage Condition:	Although lyophilized GenScript Sargramostim can remain stable at room temperature for three weeks, it is best stored desiccated below -18°C. Upon reconstitution Sargramostim should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

Quality Results

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE)	> 95%	Conformed
HPLC Purity	> 95%	Conformed
Biological Activity	6-30 pg/mL	Conformed
Molecular Weight	24-35 KD	Conformed
Bacterial Endotoxin	< 1 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: *Dandan Yao* Date: 06/21/2021

Quality Department

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.