



Product Name	PEG MGF (Pegylated Mechano-Growth Factor)	CAS #	221231-10-3
Molecular Formula	C121H200N42O39	Molecular Weight	1815.082
Batch #	MU2300408	Date of Mfg	2023-07-05
Reference Standard	Enterprise Standard	Retest Date	2023-07-04
Storage	In an airtight container, protected from light, at a temp of 2C to 8C		

TEST	SPECIFICATION	RESULT
Appearance	White or almost white fluffy powder	Conform
Solubility	Soluble in water	Conform
Water Content (Karl Fischer)	$\leq 8.0\%$	5.30%
Trifluoroacetic Acid	$\leq 0.5\%$	Not Detected
Peptide Purity (By HPLC)	$\geq 98.0\%$	99.46%
Related Substance (By HPLC)	Total Impurities (%) $\leq 2.0\%$	0.54%
	Largest Single Impurity (%) $\leq 1.0\%$	0.44%
Bacterial Endotoxins	$\leq 10\text{EU/mg}$	Conform
Assay	$\geq 90.0\%$	100.32%
Residual Solvents	Acetonitrile: NMT 410ppm	Not Detected
	Dichloromethane: NMT 600ppm	Not Detected
	DMF: NMT 880ppm	Not Detected

Conclusion	This batch conforms with enterprise standards and qualified
Test Performed By	Mike M
Test Date	7/7/23