

Certificate of Analysis			
Product Name	Tirzepatide	CAS No.	2023788-19-2
Molecular Formula	C225H348N48O68	Molecular Weight	4813.8
Batch No.	TH2023050901-1	Date of Mfg	Jun 27,2023
Reference Standard	Enterprise Standard	Retest Date	Jun 26,2025
Storage	In an airtight container,protected from light,at a temperature of 2℃ to 8℃.		
TEST	SPECIFICATION		RESULT
Appearance	White or almost white fluffy powder		Conform
Solubility	Soluble in water		Conform
Water Content (Karl Fischer)	$\leq 8.0\%$		3.9%
Sodium ion	$\leq 5.0\%$		1.32%
Trifluoroacetic Acid	$\leq 0.5\%$		Not Detected
Peptide Purity (By HPLC)	$\geq 98.0\%$		99.53%
Related Substance (By HPLC)	Total Impurities($\%$) $\leq 2.0\%$		0.47%
	Largest Single Impurity($\%$) $\leq 1.0\%$		0.30%
Bacterial Endotoxins	$\leq 10\text{EU/mg}$		1.0 EU/mg
Total Aerobic Microbial Count	$\leq 10^2$ cfu/g		Conform
Total Yeast And Mold Count	$\leq 10^2$ cfu/g		Conform
Assay	95.0 ~ 105.0%		103.13%
Residual Solvents	Acetonitrile:NMT 410ppm		30ppm
	Dichloromethane:NMT 600ppm		Not Detected
	DMF:NMT 880ppm		126ppm
Conclusion	This batch of product conforms with enterprise standard and qualified.		

Remark:The product is for research or production use only. Not for direct human use.

Analyst: Li yunyi

Approved by: Zhou weitai