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## Certificate of Analysis

product name: Tirzepatide  
CAS: 2023788-19-2  
batch No.: P230420  
Quantity 1G  
inspect date: 2023.04.21

Items	Specification	Test result
Appearance	White or off-white powder	Conforms
Solubility	Soluble in H <sub>2</sub> O	Conforms
HPLC	The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution	The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution
Clarity and color of solution	Clear and colorless	Conforms
Mass Spectrum	4813.45± 1.0	4814.40
Purity	≥98%	99.35%
Water	≤ 10.0%	3.50%
Acetic acid	≤ 5.0%	N.D
Sodium ion	≤3.0%	2.30%
Bacterial endotoxin	<10EU/mg	Conforms
Residual solvents	Methanol: ≤ 0.3% Isopropanol: ≤ 0.5% Acetonitrile: ≤ 0.041% Methylene chloride: ≤ 0.06% N,N-Dimethylformamide: ≤ 0.088% Tert-butyl methyl ether: ≤ 0.5%	Methanol: N.D Isopropanol: N.D Acetonitrile: 0.025% Methylene chloride: N.D N,N-Dimethylformamide: N.D Tert-butyl methyl ether: N.D
Peptide Assay	≥90.0%	Conforms
Packaging and storage	Store at a temperature of 2~8°C for long term storage	but should be kept at -20°C preferably desiccated.

inspector: LI JIAN

Reinspector: GAO SHEN

