

# Certificate of Analysis (COA)

Palkem India

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<b>Product Name</b>	Tirzepatide	<b>CAS No</b>	2023788-19-2
<b>Molecular Formula</b>	C225H348N48O68	<b>Molecular Weigh</b>	4813.45 g/mol
<b>Quantity</b>	2kg	<b>Package</b>	Bag
<b>Batch No.</b>	20250902	<b>Mfg. Date</b>	20250902
<b>Date of Report</b>	20250902	<b>Expired Date</b>	20250920
<b>Item</b>	<b>Specifications</b>	<b>Results</b>	<b>Review</b>
<b>Appearance</b>	White or almost white fluffy powder	Conforms	Confirmed
<b>Solubility</b>	Soluble in water	0.26%	Confirmed
<b>Water Content (KarlFischer)</b>	≤8.0%	4.2%	Confirmed
<b>Sodium ion</b>	≤5.0%	1.56%	Confirmed
<b>Peptide Purity (By HPLC)</b>	≥98.0%	99.31%	Confirmed
<b>Related Substance (By HPLC)</b>	Total Impurities (%) ≤2.0%	0.69%	Confirmed
	Largest Single Impurity (%) ≤1.0%	0.33%	
<b>Bacterial Endotoxins</b>	≤10EU/mg	≤0.5EU/mg	Confirmed
<b>Total Aerobic Microbial Count</b>	≤10 <sup>2</sup> cfu/g	Conforms	Confirmed
<b>Total Yeast And Mold Count</b>	≤10 <sup>2</sup> cfu/g	Conforms	Confirmed
<b>Assay</b>	≥ 90.0%	92.0%	Confirmed
<b>Residual Solvents</b>	Acetonitrile: NMT 410ppm	83ppm	Confirmed
	Dichloromethane: NMT 600ppm	Not detected	
	DMF: NMT880ppm	Not detected	
<b>Chloroplatinate Ion</b>	Trifluoroacetic Acid: ≤ 0.5%	Not detected	Confirmed
	Acetate Ion: ≤0.1%	Not detected	
<b>Storage</b>	In an airtight container, protected from light, at a temperature of 2°C to 8°C.		
<b>Conclusion</b>	The test results meet the company standards		