

CERTIFICATE OF ANALYSIS

STANDARD LABS

[SPEC-GRADE VERIFICATION DOCUMENT]

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Revision	01
Report Type	Analytical Verification

1. PRODUCT IDENTIFICATION

Product	Reference Grade Peptide
Batch No.	SL-LFW0L05
Compound Name	Tirzepatide
CAS Number	2023788-19-2
Molecular Formula	C ₂₂₅ H ₃₄₈ N ₄₈ O ₆₈
Molecular Weight	4813.5 g/mol
Amino Acid Sequence	Synthetic 39-amino acid sequence
Unit Size	20 mg
Form / Appearance	White lyophilized powder
Solubility	Soluble in water
Storage Conditions	-20°C, desiccated, protected from light

2. ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	VERIFIED DATA
Purity (HPLC)	HPLC	≥ 99.0 %	99.755 %
Net Content	HPLC	≥ 20 mg	20.39 mg
Molecular Mass (LC-MS)	LC-MS	4813.5 ± 1.0 Da	4813.2 Da
Appearance	Visual	White lyophilized powder	White lyophilized powder
Solubility	Solubility Test	Clear, completely soluble	Clear, completely soluble
TFA Content	HPLC	≤ 0.5 %	Conforms
Acetic Acid Content	HPLC	≤ 8.0 %	Conforms
Residual Solvents	USP <467>	Meets USP <467>	Conforms
Heavy Metals	ICP-MS	≤ 10 ppm	Conforms
Endotoxin	LAL	≤ 1.0 EU/mg	Conforms
Microbial Count	USP <61>	≤ 100 CFU/g	Conforms

3. STATEMENT OF VERIFICATION

This Certificate of Analysis confirms that the above-referenced product has been tested and verified in accordance with the methods and specifications listed herein. All analytical results conform to the established acceptance criteria. This document is issued by Standard Labs Quality Assurance and is valid without signature when generated electronically.