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-5COBJ7Y
Compound Name	SS-31
CAS Number	736992-21-5
Molecular Formula	$C_{32}H_{49}N_9O_5$
Molecular Weight	639.8 g/mol
Amino Acid Sequence	D-Arg-dimethylTyr-Lys-Phe-NH2
Unit Size	10 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 %	**99.597 %**
Net Content	HPLC	≥ 10 mg	**10.29 mg**
Molecular Mass (LC-MS)	LC-MS	639.8 ± 1.0 Da	**639.9 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.

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