# CERTIFICATE OF ANALYSIS

# STANDARD LABS

[ SPEC-GRADE VERIFICATION DOCUMENT ]

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| **Document No.** | COA-659BTP3 |
| **Date of Issue** | 12-MAY-2026 |
| **Date of Test** | 12-MAY-2026 |
| **Revision** | 01 |
| **Report Type** | Analytical Verification |

## 1. PRODUCT IDENTIFICATION

| | |
|---|---|
| **Product** | Reference Grade Peptide |
| **Batch No.** | SL-659BTP3 |
| **Compound Name** | MOTS-c (Human) |
| **CAS Number** | 1627580-64-6 |
| **Molecular Formula** | $C_{101}H_{152}N_{28}O_{22}S_2$ |
| **Molecular Weight** | 2174.6 g/mol |
| **Amino Acid Sequence** | Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg |
| **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 % | **99.452 %** |
| **Net Content** | HPLC | ≥ 20 mg | **20.19 mg** |
| **Molecular Mass (LC-MS)** | LC-MS | 2174.6 ± 1.0 Da | **2174.4 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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