



CERTIFICATE OF ANALYSIS · IDENTITY · PURITY

MOTS-c

10 mg

Client: **Northern Research Supply**
LAB ID MOTS-172_D ISSUED SEPTEMBER 17, 2026

§ 01 Sample Information

Sample ID: **MOTS-172_D**
Compound: **MOTS-c**
Report No.: **COA-2026-SC-02525**
Total Mass: **57.5 mg**
Appearance: **Lyophilized powder**
Received: **09/10/2026**
Analyzed: **09/17/2026**
CAS: **1627580-64-6**
Formula: **C₁₀₁H₁₅₂N₂₈O₂₂S₂**
Mol Weight: **2174.5 g/mol**



SAMPLE PHOTOGRAPH

§ 02 Analytical Results

Qualitative and Quantitative chemical analysis by Liquid Chromatography Tandem Mass Spectrometry (HPLC-MS/MS)
Instrument · Agilent 1290 Infinity II with Agilent 6495 QQQ

IDENTITY	NET PEPTIDE CONTENT	PEPTIDE FILL ACCURACY	CHROMATOGRAPHIC PURITY
MOTS-c Principal component confirmed against reference standard	11.50 mg Total peptide in the vial as received	115.0 % Measured net content ÷ declared label claim	99.4 % Principal-component peak area (Ph. Eur. 2.2.46)

Identity confirmation criteria — MRM 725.5 > 175.1 (quantifier); retention time —: in agreement with reference standard.

Chromatographic purity bounds peptide-related impurities only — not excipients, counter-ions, or residual water — and is separate from net peptide content. Values are reported as measured; this document contains **no pass/fail determination** against any specification or label claim.

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