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DIAGNOSTICS

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Certificate of Analysis

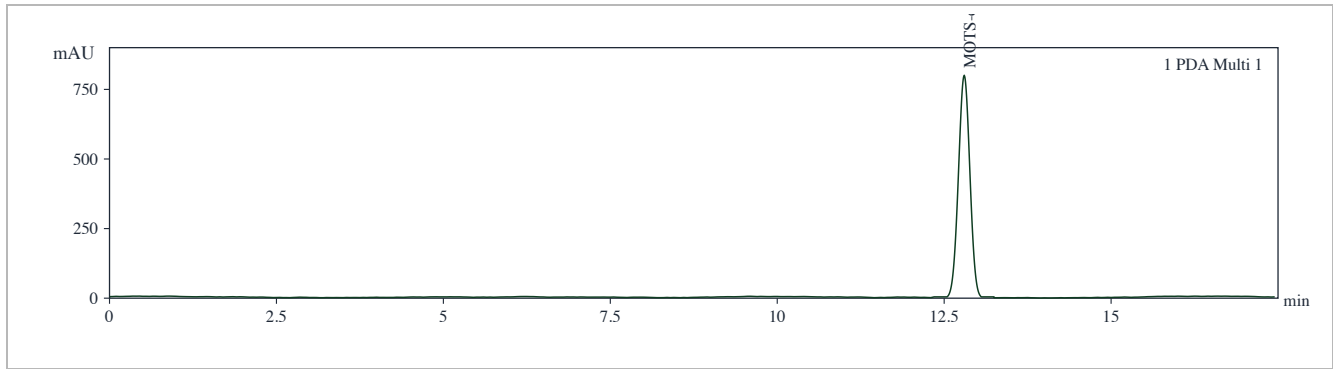
Accession Number	2603188483
Client	CoreChems
Search Code	CORE2603188483
Received Date:	04/11/2026
Reported Date:	04/13/2026

Product	MOTS-C 10mg
Net Peptide Content	10.27 mg
Identity	MOTS-c

Lot	CORE-MOTSC-109
Purity	99.693%
Appearance	White Lyophilized Powder

All Chemical Analysis was performed by HPLC with UV Detection Coupled with Mass Spectrometry

Mass Identification	Result
MOTS-c	99.693%

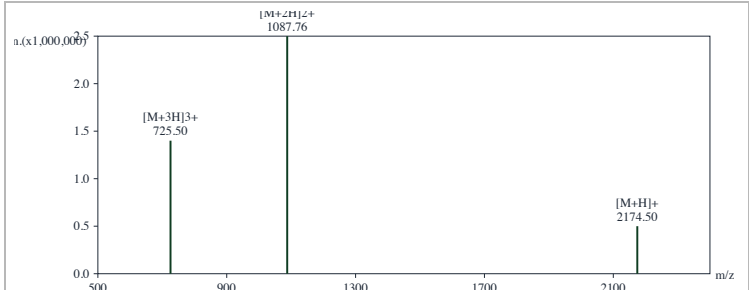


HPLC Method Conditions

Column	Waters XBridge BEH C18 · 4.6 × 150 mm · 3.5 μm
Mobile Phase A	0.1% TFA in H ₂ O (v/v)
Mobile Phase B	0.1% TFA in CH ₃ CN (v/v)
Gradient	5 → 55% B linear over 17.0 min
Flow Rate	1.0 mL/min
Column Temp.	38 °C
Detection	UV 214 nm + LC-MS/MS (ESI+)
Injection Vol.	10 μL · 0.5 mg/mL in H ₂ O
Retention Time	12.80 min
Observed MW	2173.50 g/mol

System Suitability

Theoretical Plates (N)	27,871
Tailing Factor (T)	1.21
Replicate RSD (n=5)	0.29%
Standard Recovery	99.6%
Acceptance Criterion	≥ 95.0% purity



COA: 2603188483

Jonathan Garcia
Principal Chemist

The peptide purity analysis reported here was conducted using LC-MS/MS under standard laboratory conditions at Liberty Lab Diagnostics. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The peptides tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables.

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