

CERTIFICATE OF ANALYSIS

Tested By A US-Certified Laboratory

Sample Name: MOTS-C
Analysis Equipment: LCMSMS-UV (Qtof positive ESI)
Lot #: Cyth-C (red top cap)

Sample Received: 04/22/2026
Sampling Date: 04/22/2026
Report Date: 04/25/2026

Molecular weight	2174.62	
Molecular formula	C101H152N28O22S2	
Sequence	Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg(MRWQEMGYIFYPRKLR)	
Test Request	Specification	Result
Appearance	White lyophilized powder	Complies
Peptide Purity by LC (%)	>= 98.5%	99.62%
Peptide potency (mg/vial)	5±0.5g	4.98
Identification by LCMSMS	MW: 2174.6 g/mol	Calculated MW: 2174.13
Conclusions	Conforms to standard	Complies



QC Director



Analytical Chemist

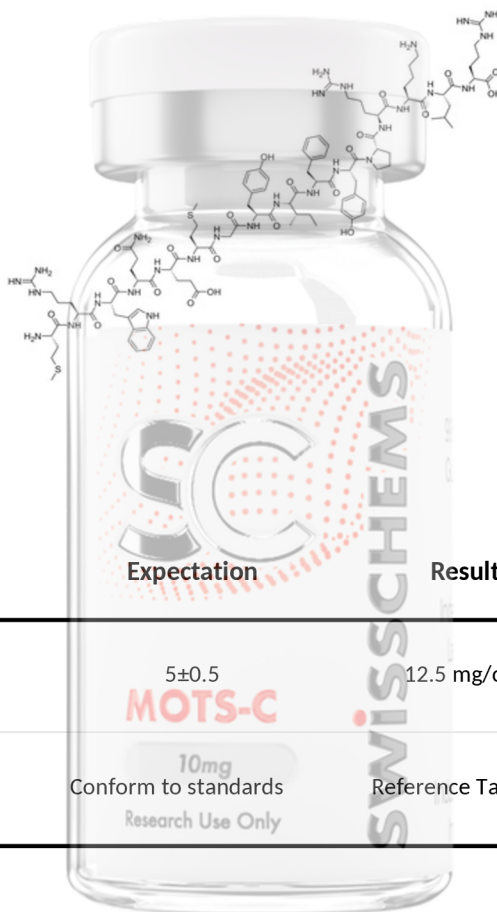


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Structure of MOTS-C



Test	Expectation	Result	Result
Potency (mg/vial)	5±0.5	12.5 mg/cap	HPLC-UV-MS
Identification	Conform to standards	Reference Table 1.	LC-MS/MS- positive

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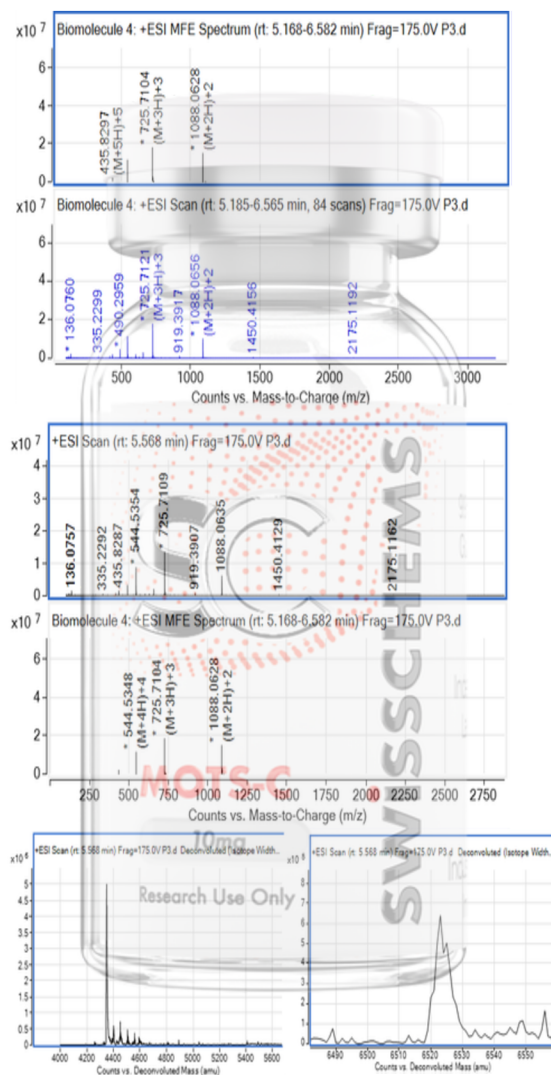


Fig.1 High resolution MS spectra and Deconvolution spectra by Qtof-MS (positive)

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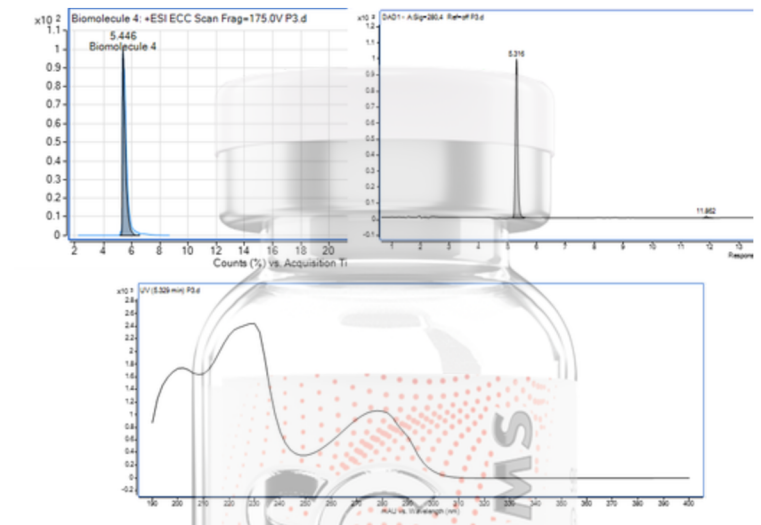


Fig.2. ESI EIC and UV Chromatography, UV Absorption of MOTS-C

	<i>m/z</i>	MW_Cal.	H+
[M+2H] ⁺ 2	1088.0656	2174.1312	2
[M+3H] ⁺ 3	725.7104	2174.1312	3
[M+4H] ⁺ 4	544.5348	2174.1392	4
[M+5H] ⁺ 5	435.8287	2174.1435	5
2M	4349.45	2174.7250	
3M	6523	2174.3333	

Table 1. Mass fragmentation and Deconvolution mass table

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