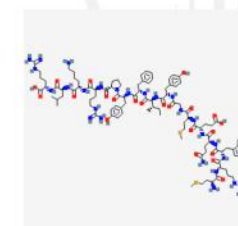




PRODUCT IDENTIFICATION

HPLC-UV coupled with LC-MS/MS, standard laboratory conditions

Compound Name	MOTS-c	CAS No.	1627580-64-6
Molecular Formula	C101H152N28O22 S2	Molecular Weight	2174.62 g/mol
Appearance	White Lyophilized Powder	Compound Concentration	10mg
Sequence:	MRWQEMGYIFYPKLR		



MOLECULAR STRUCTURE



CLIENT SAMPLE PHOTO

SAMPLE IDENTIFICATION

Client-supplied, verified at intake

Product Company	Midwest Peptide	Container Size	3ml Glass Vial
Cap Color	White	Crimp / Seal Color	Silver

ANALYTICAL RESULTS

Test	Specification	Result	Status
Purity (HPLC)	$\geq 90.0\%$	99.70%	PASS
Mass Identification (LC-MS/MS)	Conforms to declared compound	MOTS-c	PASS
Net Peptide Content	$\geq 90\%$ of 10 mg	10.94 mg	PASS
Water Content (Karl Fischer)	$\leq 10.0\%$	5.17%	PASS
Acetate Content (HPLC)	$< 12.0\%$	4.02%	PASS
Heavy Metals (ICP-MS)	< 10 ppm	Not Detected	PASS
Bacterial Endotoxins (LAL)	< 5 EU/mg	Not Detected	PASS
Sterility (RMM)	USP <71>	Growth Not Detected	PASS
Mass Balance	95.0 – 105.0%	Conforms	PASS

ANALYST NOTES

Batch/lot conformity testing was completed using representative samples from the submitted lot. Analytical results were reviewed for consistency across the tested samples, and the values reported on this Certificate of Analysis reflect the average results obtained for the batch/lot. The tested units demonstrated acceptable conformity within the applicable analytical specifications. Sterility testing by Rapid Microbiological Method (RMM) was completed, with no microbial growth detected under the conditions of the test. The batch/lot therefore met the stated RMM sterility acceptance criterion of Growth Not Detected.

INSTRUMENT DATA

Traces behind the results above

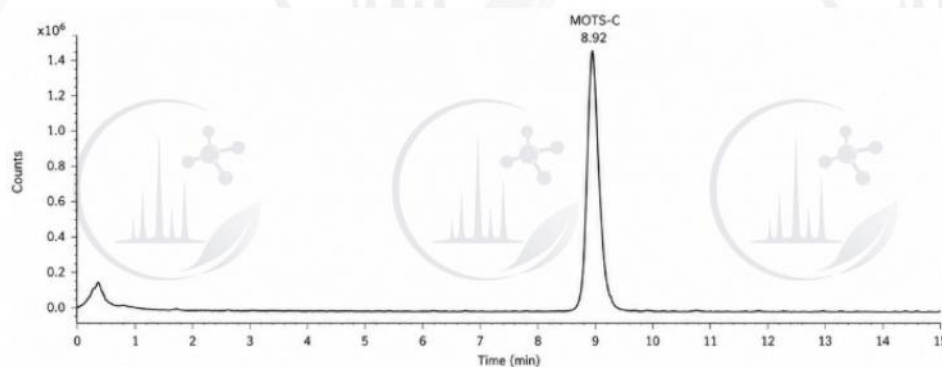


FIGURE 1 — CHROMATOGRAPHIC DATA (HPLC-UV)

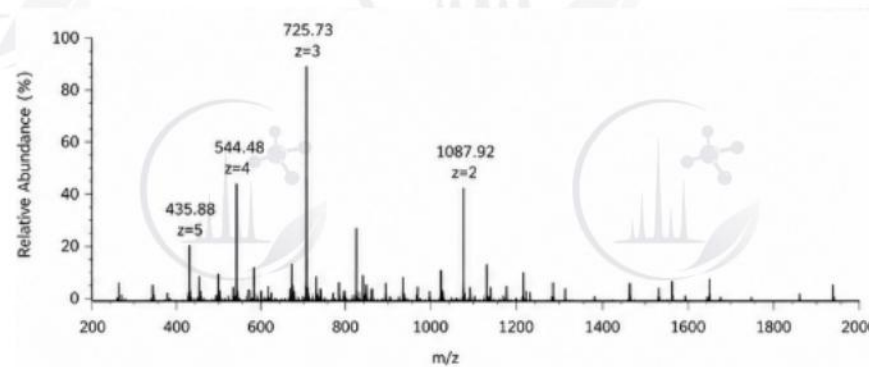


FIGURE 2 — MASS SPECTROMETRIC DATA (LC-MS/MS)

Lee Adams

Lee Adams
Lab Director

COA: PMS-9404827132

The analysis reported herein was conducted using HPLC-UV and LC-MS/MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The compounds 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. The sample image included in this Certificate of Analysis was provided by the client during intake. For research use only.



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