Horizon Analytical

Certificate of Analysis

Lot Number: PP-6063329-P
Client Name: Purple peptides
Identity: https://www.purplepeptides.net

Received Date: 04/23/2026
Analysis Conducted: 04/18/2026
Searchable via: horizonanalytical.com

Compound:	MOTS-c
Lot:	PP-6063329-P
Appearance:	White Lyophilized Powder

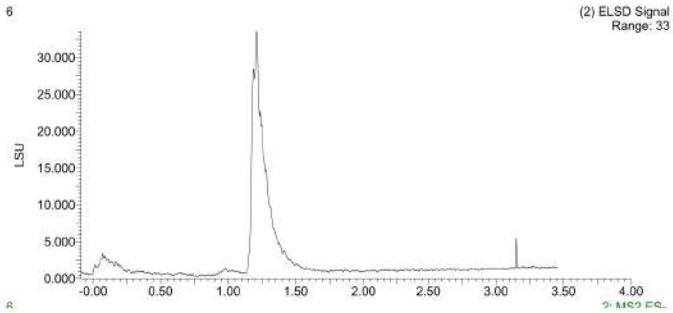
CAS:	1627580-64-6
Formula:	$C_{101}H_{152}N_{28}O_{22}S_2$
Mol Weight:	~2174.64 g/mol

Pubchem CID: 255386757

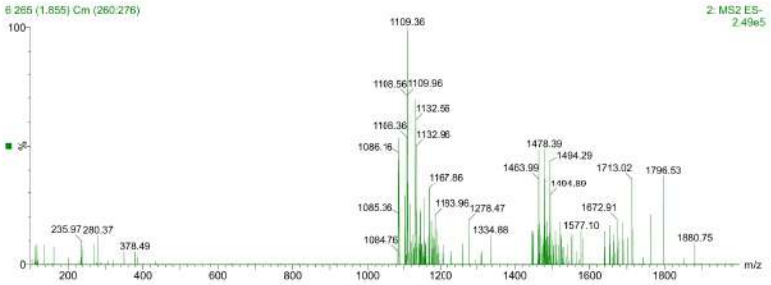
Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	MOTS-c	MOTS-c	
Quantity:	10mg	10.21mg	
Purity:	>98%	99.24%	

UPLC



MS



Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

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Certificate of Analysis

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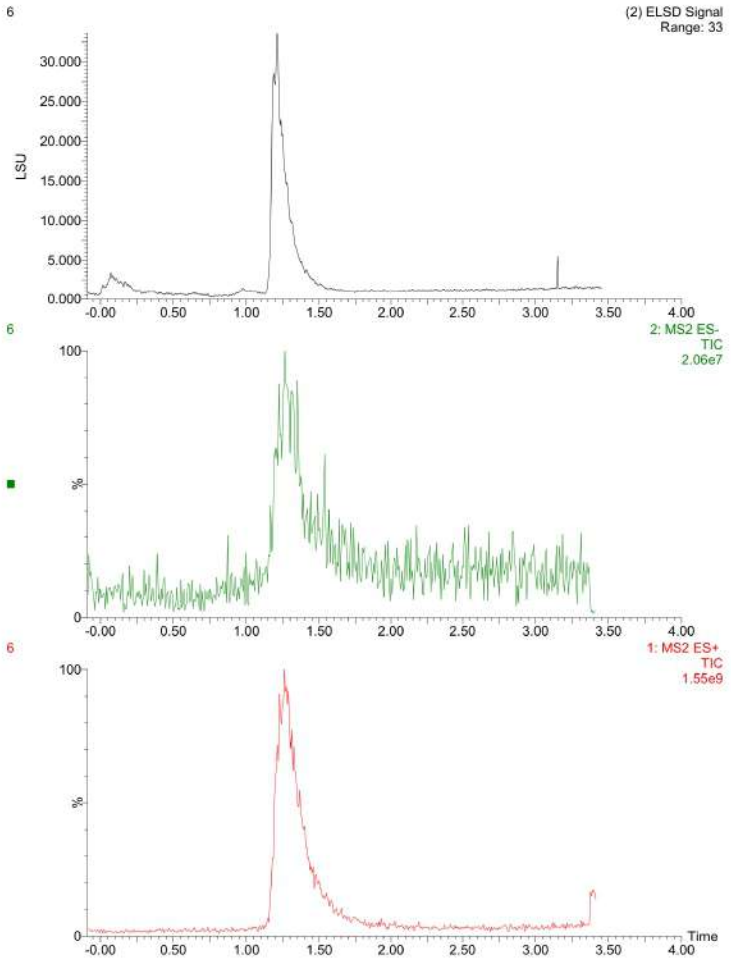
Client Name: Purple peptides
Identity: https://www.purplepeptides.net

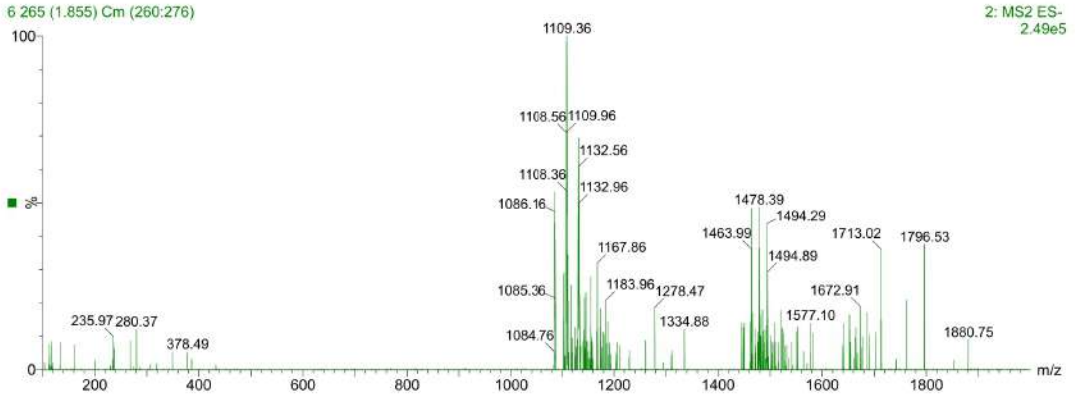
Received Date: 04/23/2026
Analysis Conducted: 04/18/2026
Searchable via: horizonanalytical.com

MOTS-c (10mg) • Pubchem CID: 255386757

Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



BioRegen
Independent Testing, Trusted Results

Certificate of Analysis
#12079 | PURPLEP01

Client: Purple Peptides
beau.p@purplepeptides.net
4084213038

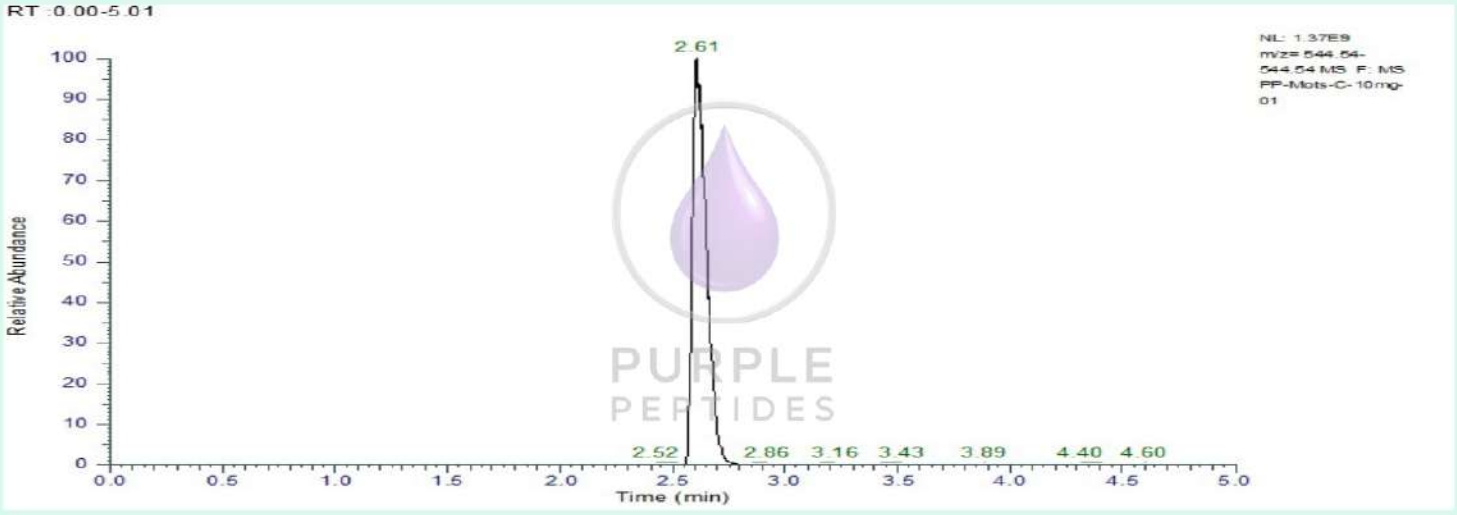
Sample received: 01/23/26
Analysis conducted: 02/04/26

Compound:	MOTS-c	CAS:	1627580-64-6
Batch/Lot #:	N/A	Formula:	C101H152N28O22S2
Appearance:	White lyophilized powder	Mol Wt:	2174.64 g/mol

Method: Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry
Pubchem CID: 155885767
MOTS-c |C101H152N28O22S2| 155885767

	Specification	Result	
Identity Test:	MOTS-c	**MOTS-c**	**Conforms**
Purity:	>99%	**99.64%**	**Conforms**

LC-MS Chromatogram: Retention Time and Peak Analysis



Horizon Analytical

Certificate of Analysis

Lot Number: PP-6063329-E
Client Name: Purple peptides
Identity: https://www.purplepeptides.net

Received Date: 04/23/2026
Analysis Conducted: 04/18/2026
Searchable via: horizonanalytical.com

Compound:	MOTS-c	CAS:	1627580-64-6
Lot:	PP-6063329-E	Formula:	$C_{101}H_{152}N_{28}O_{22}S_2$
Appearance:	-	Mol Weight:	~2174.64 g/mol

Pubchem CID: 255386757

Endotoxin Test

	Specification	Result	Scan to Validate:
Compound Test:	MOTS-c	-	
Endotoxin:	-	< 0.05 EU/mL	

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

This endotoxin analysis was performed under standard laboratory conditions using validated testing methodologies to ensure accurate and reliable results. The analysis is intended for informational and research purposes only.

Contact at: contact@horizonanalytical.com

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