

Lot Number: **FRP - 5217773**  
 Client Name: **Freedom Peptides LLC**  
 Identity: **Getfreedompeptides.com**


Received Date: **03/28/2026**  
 Analysis Conducted: **04/10/2026**  
 Searchable via: **horizonanalytical.com**

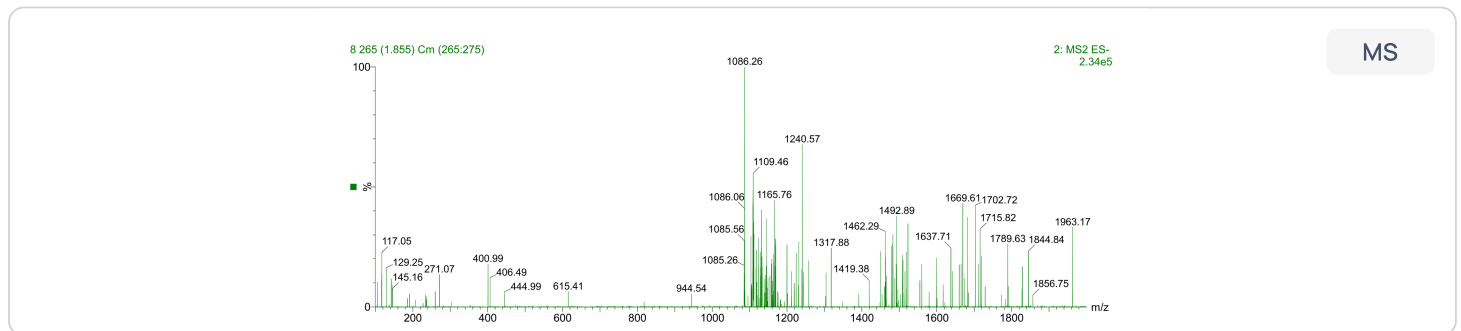
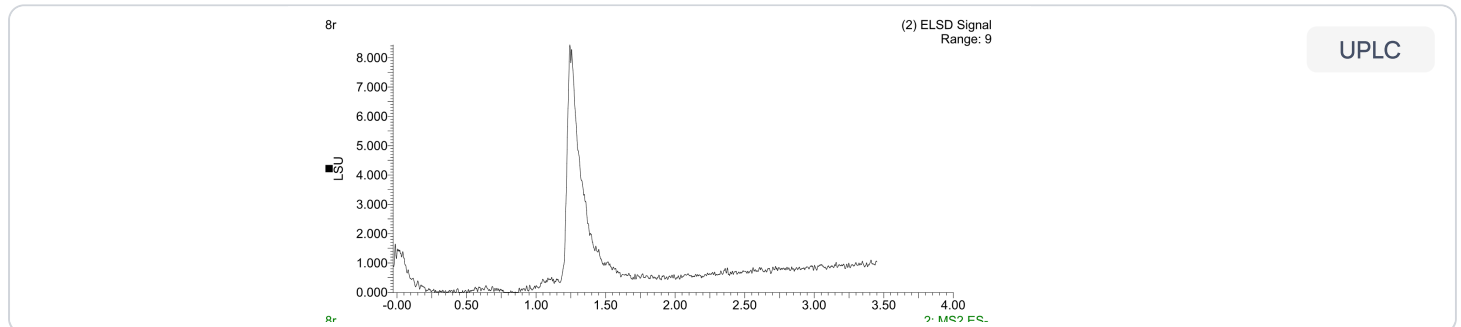
Compound:	MOTS-c
Lot:	FRP - 5217773
Appearance:	White Lyophilized Powder

CAS:	1627580-64-6
Formula:	C <sub>101</sub> H <sub>152</sub> N <sub>28</sub> O <sub>22</sub> S <sub>2</sub>
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	12.9mg	
Purity:	>98%	99.35%	



**Aleksey Yevtodiyyenko PhD**  
 Research and Formulation Chemist

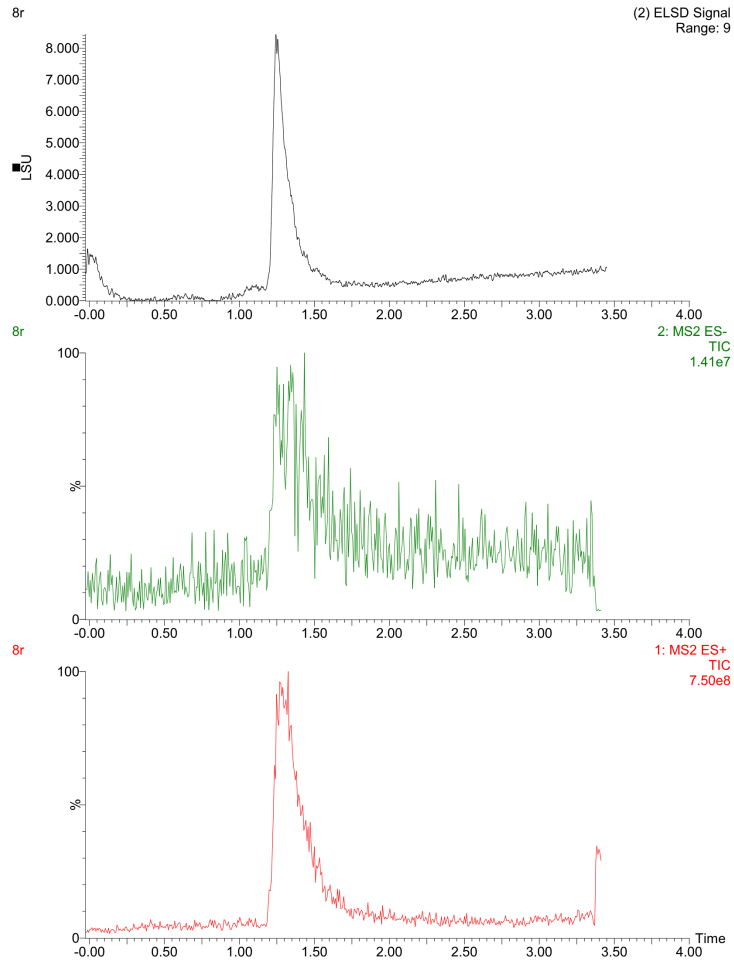


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

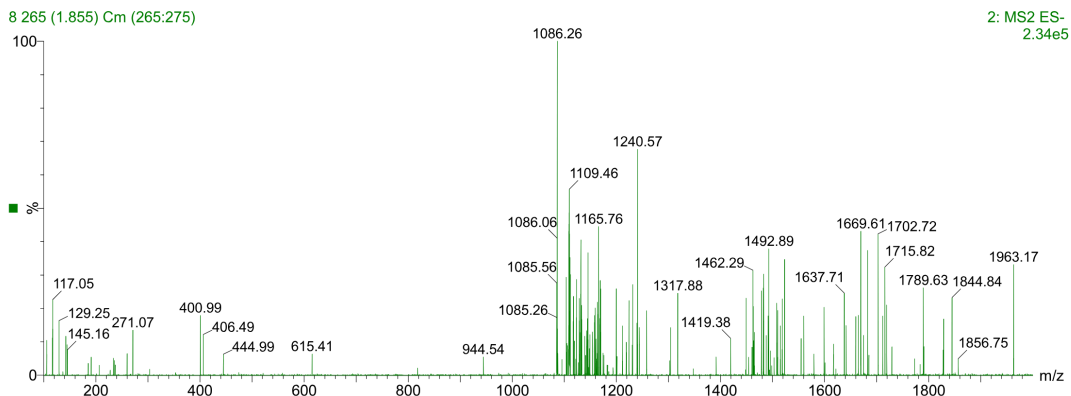
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MOTS-c (10mg) • Pubchem CID: 255386757  
 Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



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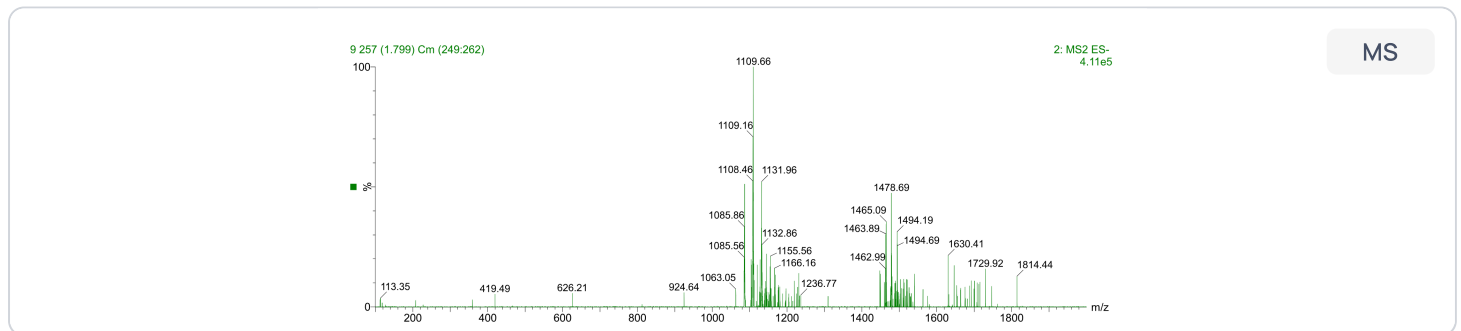
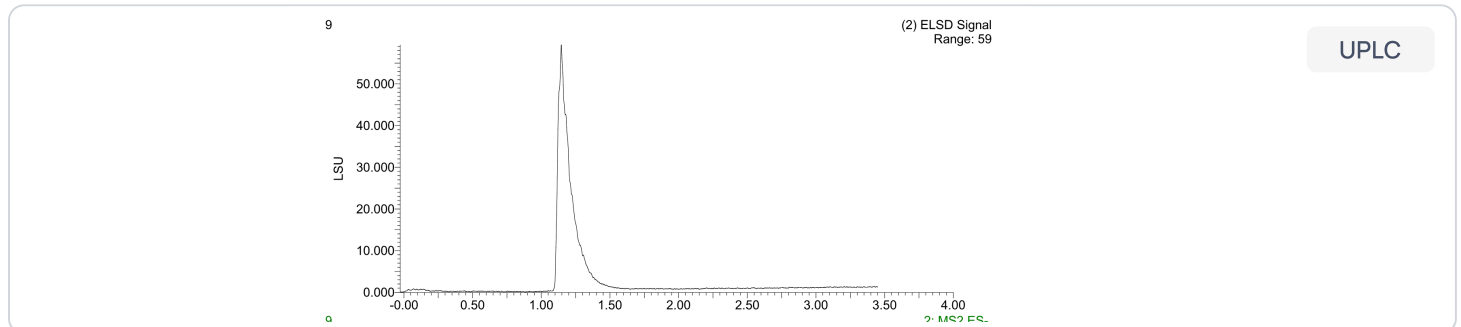
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<b>Lot:</b>	FRP - 7217774
<b>Appearance:</b>	White Lyophilized Powder

<b>CAS:</b>	1627580-64-6
<b>Formula:</b>	C <sub>101</sub> H <sub>152</sub> N <sub>28</sub> O <sub>22</sub> S <sub>2</sub>
<b>Mol Weight:</b>	~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:	40mg	46mg	
Purity:	>98%	99.25%	



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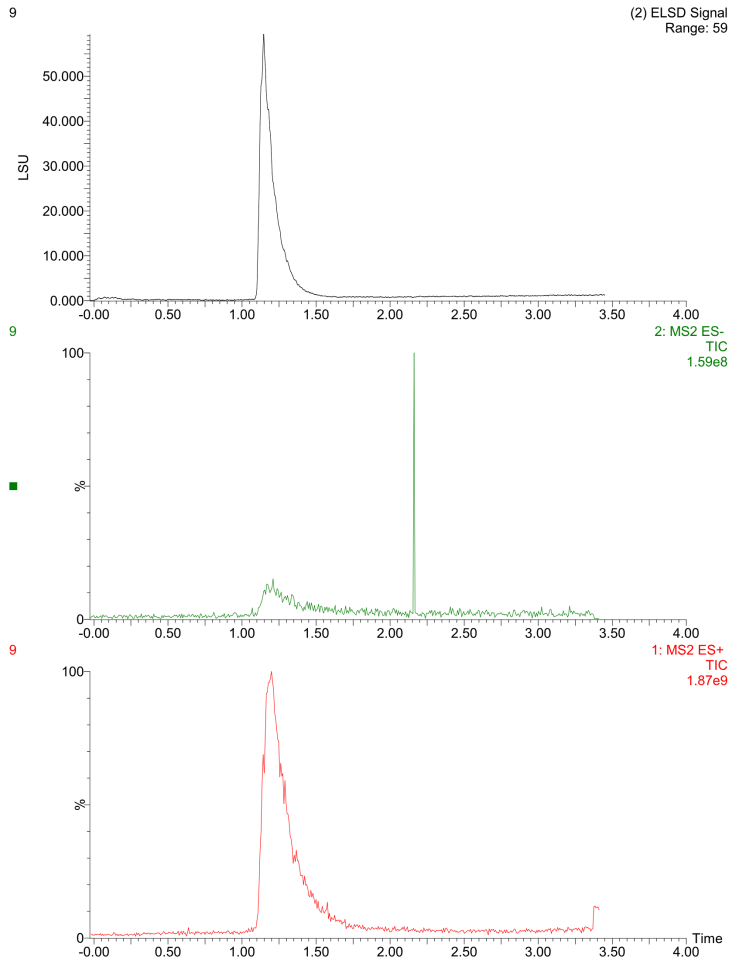


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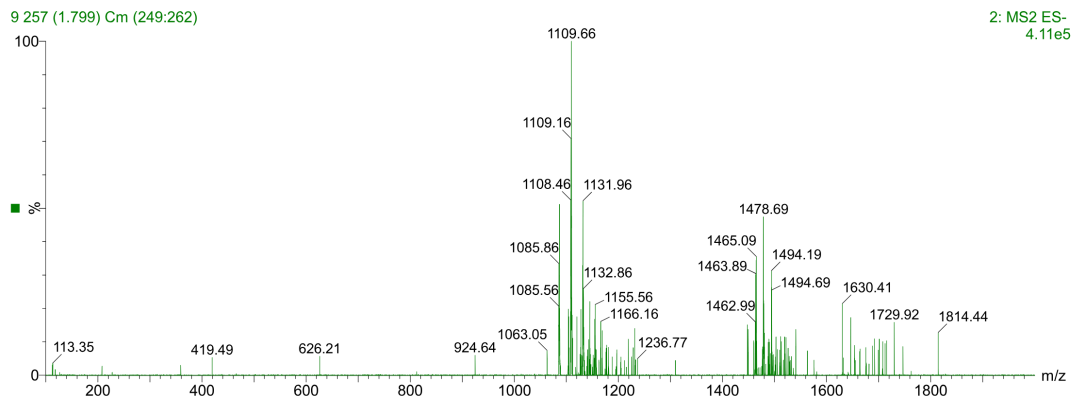
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MOTS-c (40mg) • Pubchem CID: 255386757  
Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Lot Number: **FRP-5217772**  
 Client Name: **Direct Peptides**  
 Identity: **directpeptides.com**

Received Date: **02/18/2026**  
 Analysis Conducted: **02/28/2026**  
 Searchable via: **horizonanalytical.com**

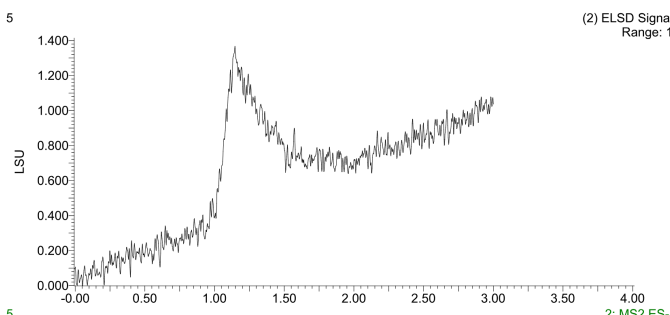
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Lot:	FRP-5217772
Appearance:	White Lyophilized Powder

CAS:	1627580-64-6
Formula:	C <sub>101</sub> H <sub>152</sub> N <sub>28</sub> O <sub>22</sub> S <sub>2</sub>
Mol Weight:	~2174.64 g/mol

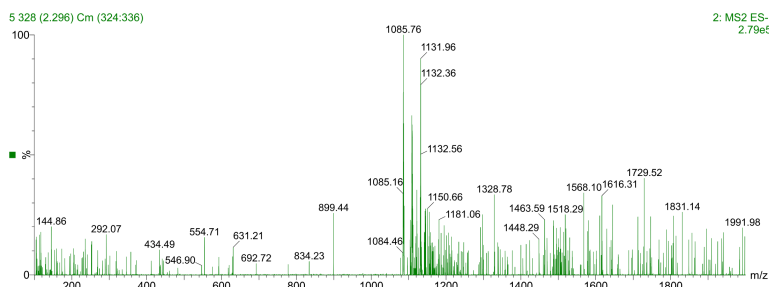
Pubchem CID: 255386757

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	10.52mg	
Purity:	>98%	99.26%	



UPLC



MS

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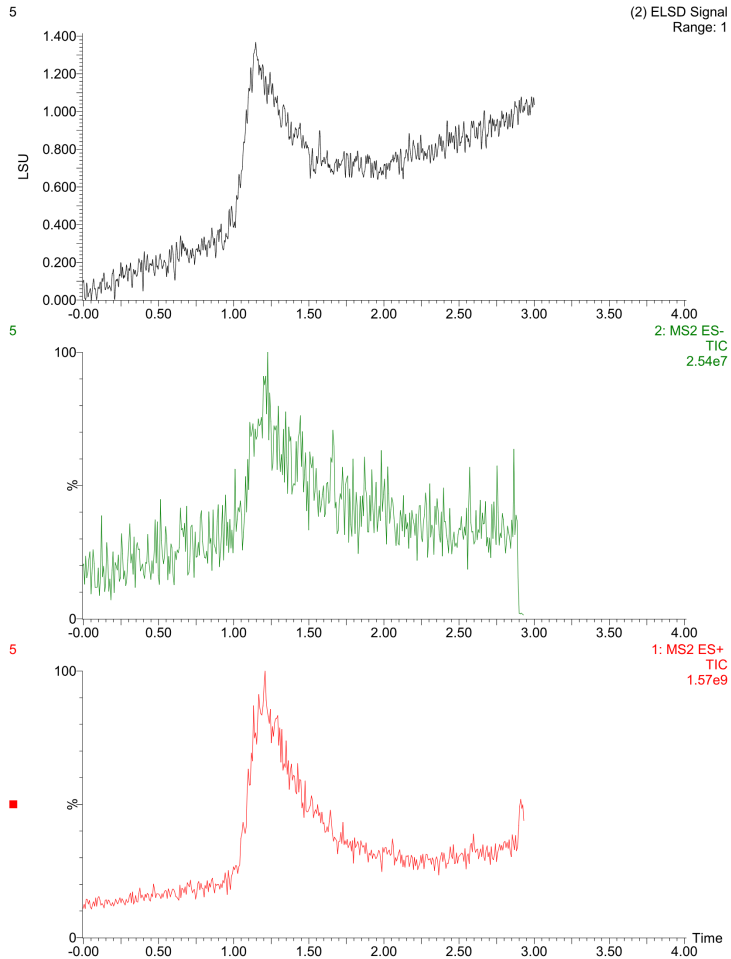


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Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)

