



Client: Step One Ventures, LLC
Accession #: 2608311412
Search Code: Step2608311412
Received: 8/31/2026
Reported: 9/3/2026
Lot: MTS26082801

Sample Summary

Product:	MOTS-c 40mg	Purity:	Vial 1: 99.47% Vial 2: 99.48%
Identity:	Confirmed	Net Content:	Vial 1: 42.89 mg Vial 2: 42.27 mg
Appearance:	White Lyophilized Powder		
Endotoxin Threshold:	Pass		
Microbial Analysis (PCR):	Pass		
Elemental Impurities (ICP-MS):	Pass		
As Cd Pb Hg			
Fentanyl	No Fentanyl Detected		

Analytical Results

Test	Result
Identity (LC-MS)	MOTS-C
Purity (HPLC-UV)	99.48%
Elemental Impurities (ICP-MS):	Pass — Arsenic, Cadmium, Lead, and Mercury below reporting/specification limits
Net Content	42.58 mg

Method: Endotoxin testing performed using Limulus Amebocyte Lysate assay in accordance with USP <85> under validated laboratory conditions.

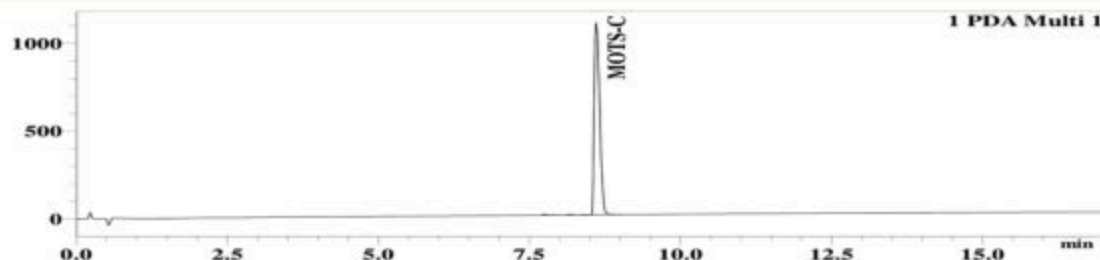
Endotoxin Replicate 1:	Pass	Assay Sensitivity: ≤0.05 EU/mL
Endotoxin Replicate 2:	Pass	Assay Sensitivity: ≤0.05 EU/mL

Method: Microbial detection performed using validated polymerase chain reaction (PCR)-based assay targeting common microbial contaminants.

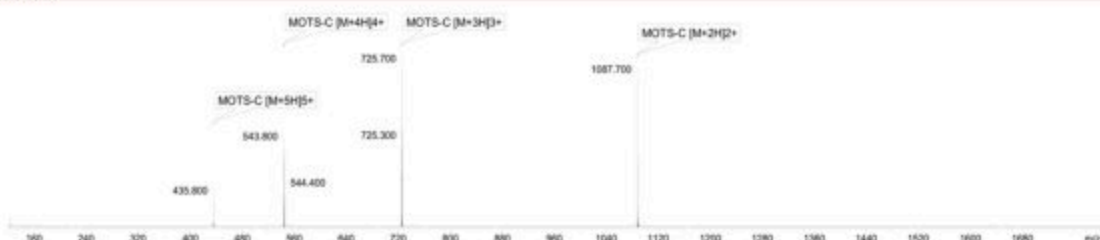
Microbial Analysis (PCR)	No Detectable Microbial DNA
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Method: HPLC with UV detection coupled with mass spectrometry (LC-MS).

Chromatogram



Mass Confirmation




 Principal Chemist

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The peptide purity analysis reported here was conducted using LC/MS/MS under standard laboratory conditions. 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.