Certificate of Analysis

FreedomDiagnosticsTesting.com

Admin@FreedomDiagnostics.net

Client:	Iron Within Research
Accession #:	2605060165
Search Code:	Iron2605060165
Received:	05/06/2026
Reported:	05/08/2026
Lot:	Yellow Cap

Sample Summary

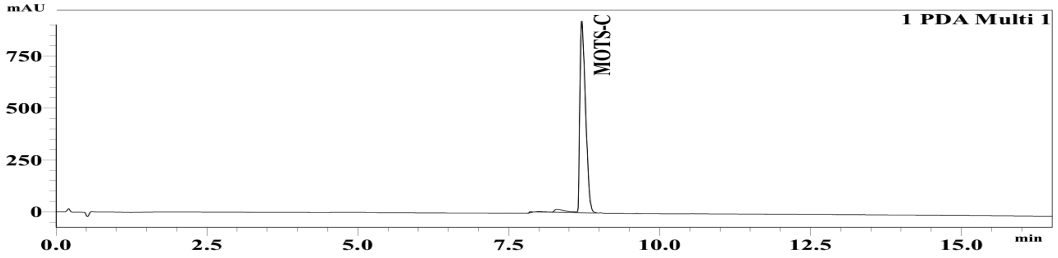
Product:	MOTS-C 40mg	**Purity:**	99.37%
Identity:	Confirmed	**Net Content:**	42.78 mg
Appearance:	White Lyophilized Powder		

Analytical Results

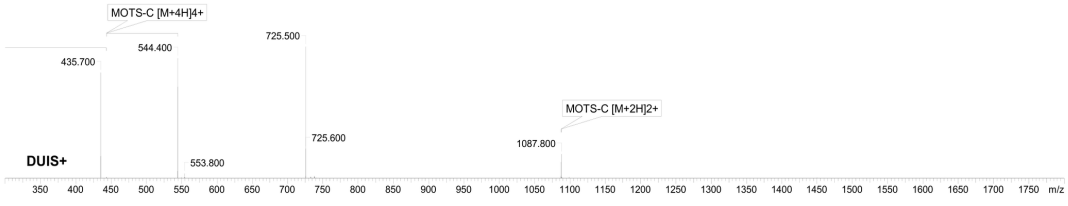
Test	Result
Identity (LC-MS)	MOTS-C
Purity (HPLC-UV)	99.37%
Net Content	42.78 mg

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 LCMS/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.

SUMMIT
BIOANALYTICS

Certificate of Analysis

#SBA-26-0020

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com | summitbioanalytics.com

TESTED FOR
Iron Within Research

SAMPLE
MOTS-C — 40 mg

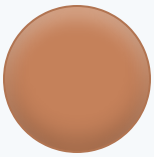
PASS

BATCH #	PURITY	MASS	IDENTITY
IWR-2607-MOTSC40	99.06%	40.02 mg	Confirmed

COA #:	SBA-26-0020	Method:	Full QC Panel
Lot Number:	IWR-2607-MOTSC40	Analysis Date:	2026-08-02
Labeled Content:	40 mg	Date Received:	2026-07-29
		Appearance:	White lyophilized powder, intact seal

SCAN TO VERIFY

- ✓ Identity
- ✓ Purity
- ✓ Endotoxins
- ✓ Fentanyl Free



VIAL CAP
Copper
#C5815A

CLOSURE AS RECEIVED

Test	Specification	Result
Identity	MOTS-C	Confirmed
Purity (HPLC)	>= 98.0%	99.06%
Content (gross)	Report only	40.02 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.08 EU/mL

Test	Specification	Result
Sterility Screen (rapid PCR)	No growth	**No growth**
Heavy Metals (ICP-MS)	ICH Q3D limits	**All analytes within limits**

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganius
Lab Director
2026-08-02

COA #:	**SBA-26-0020**
Access Code:	**YV8PJJYW**
Analyst:	**R. Whitfield**
Verify:	summitbioanalytics.com/verify
Issued:	2026-08-02