

Analysis Report

Official laboratory analysis summary for the submitted sample and associated quality-control review.

SAMPLE	RECEIVED DATE	ANALYSIS DATE	REPORT GENERATED
Mots-c	Apr 06, 2026	Apr 10, 2026	Apr 11, 2026
STRENGTH	10mg	MANUFACTURER	PeptiCoreAminos
BATCH NUMBER	PC-MO10-0409E	LAB CODE	893-1
CLIENT	www.peptiCoreAminos.net		

SAMPLE INFORMATION

Mots-c

10MG

FORM White powder in a glass vial

SAMPLE SUBMISSION Sample provided by customer

BATCH PC-MO10-0409E

CAP / CRIMP COLOR Pink/Silver

RECEIVED DATE Apr 06, 2026



SAMPLE IMAGE

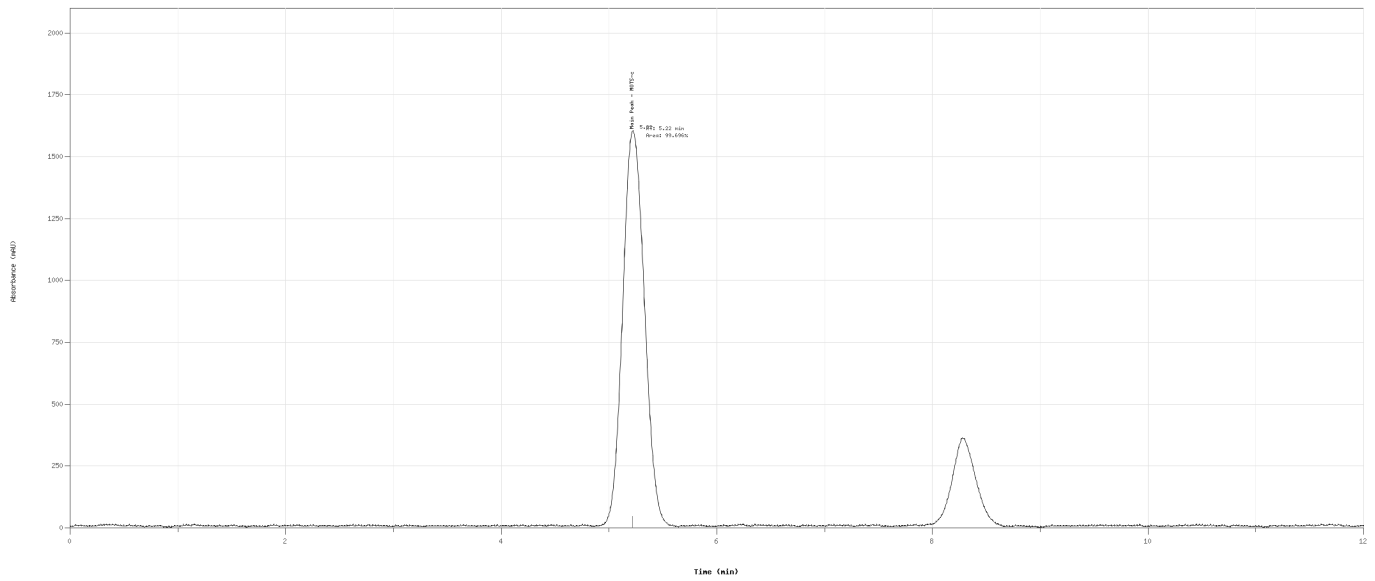
ANALYTICAL SUMMARY

IDENTITY	Mots-c
PURITY	99.696%
QUANTITY	10.23mg
BATCH	PC-MO10-0409E
MANUFACTURER	PeptiCoreAminos

RP-HPLC-UV CHROMATOGRAM (220 NM)

Detection: UV 220 nm

Sample ID: H015-C
Report ID: 019-2020-004091
Method: RP-HPLC-UV Method For Peptide Analysis
Detector: UV 220 nm | Runtime: 12.0 min



METHOD

TIME	H2O + 0.1% TFA	ACN + 0.1% TFA
0min	92%	8%
2min	92%	8%
10min	10%	90%
12min	10%	90%

TECHNICAL NOTE

Analysis performed by RP-HPLC-UV at 220 nm using a gradient elution program. Total runtime: 12.0 minutes.

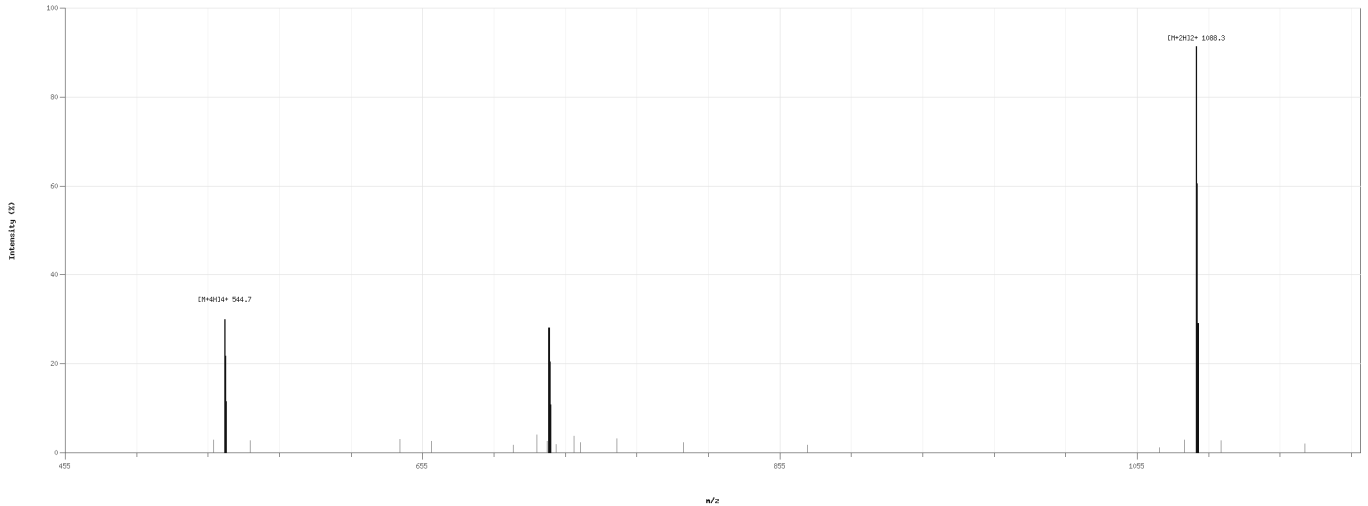
COMMENTS

Chromatographic review confirms that the sample meets the defined analytical specifications for identity, purity and impurity profile under the applied RP-HPLC-UV method.

LC-MS MASS SPECTRUM

Sample: N255-C
Report ID: 379-2025-04895
Reference PK: 2174.6 Da
Ionization: ESI+

Acquisition: LC-MS
Profile: Holes - Centroid



Charge-state distribution and isotope clustering consistent with the analyzed sample.

ANALYSIS & METHODOLOGY

STANDARD PEPTIDE PURITY, MASS & ADDITIONAL TESTING

HPLC-UV: High-Performance Liquid Chromatography with Ultraviolet detection. Additional testing includes bioburden screening, endotoxin analysis and heavy metals assessment.

BIOBURDEN

TEST	RESULT	UNIT	REPORTING LIMIT
Total Aerobic Microbial Count USP <61>/Eur. Ph. 2.6.12. Plate Count Method	Not detected	CFU/g	>= 1000
Total Yeast and Mold Count USP <61>/Eur. Ph. 2.6.12. Plate Count Method	Not detected	CFU/g	>= 100

ENDOTOXIN ANALYSIS

TEST	RESULT	UNIT	REPORTING LIMIT
Bacterial Endotoxin USP<85>/ Eur. Ph. 2.6.14. Bacterial Endotoxin Chromogenic Test	< 0.002	EU/mg	> 0.5

HEAVY METALS

TEST	RESULT	UNIT	REPORTING LIMIT
Arsenic Elemental Impurities Screening	Not detected	ppm	>= 1.5
Cadmium Elemental Impurities Screening	Not detected	ppm	>= 0.5
Cobalt Elemental Impurities Screening	Not detected	ppm	>= 25
Lead Elemental Impurities Screening	Not detected	ppm	>= 1.5

TEST	RESULT	UNIT	REPORTING LIMIT
Nickel Elemental Impurities Screening	Not detected	ppm	>= 25
Quicksilver Elemental Impurities Screening	Not detected	ppm	>= 1.5
Vanadium Elemental Impurities Screening	Not detected	ppm	>= 25

TECHNICAL APPENDIX

This appendix documents the analytical methodology, instrumentation and acceptance criteria applied for the evaluation of the sample.

COMPOUND REFERENCE

PARAMETER	MOTS-C
PUBCHEM CID	146675088
CAS	1627580-64-6
MOLECULAR FORMULA	C101H152N28O22S2
MOLECULAR WEIGHT	2174.6 g/mol

METHOD SPECIFICATION

PARAMETER	RP-HPLC-UV METHOD FOR PEPTIDE ANALYSIS
ANALYTICAL MODE	Purity assessment of peptide sample by RP-HPLC-UV
COLUMN	C18 peptide column, 150 x 4.6 mm equivalent
MOBILE PHASE A	Water + 0.1% TFA
MOBILE PHASE B	Acetonitrile + 0.1% TFA
FLOW RATE	0.8 mL/min
DETECTION	UV 220 nm
INJECTION VOLUME	10 uL
RUNTIME	12.0 min
SAMPLE DILUENT	Aqueous organic diluent compatible with peptide analysis
SAMPLE PREPARATION	Diluted, mixed and clarified before injection

INSTRUMENT PLATFORM

PARAMETER	STANDARD HPLC-UV PLATFORM
SYSTEM TYPE	Analytical HPLC system
DETECTOR	UV/VIS detector
ACQUISITION	Chromatographic acquisition and integration software
REVIEW MODE	Retention-time and response-profile review

PARAMETER	STANDARD HPLC-UV PLATFORM
WORKFLOW NOTE	Used for routine peptide purity and identity screening

ANALYTICAL CRITERIA

PARAMETER	ACCEPTANCE FRAMEWORK	BASIS
IDENTITY	Retention-time and profile agreement with reference expectations	Chromatographic identity review
PURITY	NLT 98.0% unless a stricter report-specific specification is declared	Integrated RP-HPLC-UV purity profile
QUANTITY	Measured content reviewed against the declared sample strength	Report-level analytical summary
BIOBURDEN	Not detected or within stated reporting limits	Microbial screening table
ENDOTOXIN	Below stated reporting limit / internal screening threshold	Endotoxin analysis table
HEAVY METALS	Below individual reporting limits where screened	Elemental impurities screening table

This appendix documents the analytical methodology, instrumentation and acceptance criteria applied for the evaluation of the sample.

VERIFICATION

Verify this report through the official Synaptica Analytics verification page using the details below.

Verification URL synaptica-labs.com/verify-report/

Report ID SYN-2026-004891

Verification Key VK-L9PL-KKXN

SCAN TO VERIFY



DIGITAL SIGNATURE



DIGITALLY SIGNED BY:

Martin Saar

Date: 2026.04.11

13:37:46 +02'00'

Director

info@synaptica-labs.com

Analysis date: Apr 10, 2026

Report generated: Apr 11, 2026

Analytical testing performed by Synaptica Analytics -
Analytical Services Division

Synaptica Analytics
SYN-2026-004891
Laboratory Analysis Report
VK-L9PL-KKXN

VERIFY AT
synaptica-labs.com/verify-report/