

Analysis Report

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

SAMPLE N-Acetyl Semax Amidate	RECEIVED DATE Aug 03, 2026	ANALYSIS DATE Aug 07, 2026	REPORT GENERATED Aug 10, 2026
STRENGTH	10mg	MANUFACTURER	PeptiCoreAminos
BATCH NUMBER	PC-NSX10-0828U	LAB CODE	987-2
CLIENT	www.peptiCoreAminos.net		

SAMPLE INFORMATION

N-Acetyl Semax Amidate

10MG

FORM White lyophilized powder in a glass vial

SAMPLE SUBMISSION Sample provided by customer

BATCH PC-NSX10-0828U

CAP / CRIMP COLOR Yellow / Gold

RECEIVED DATE Aug 03, 2026



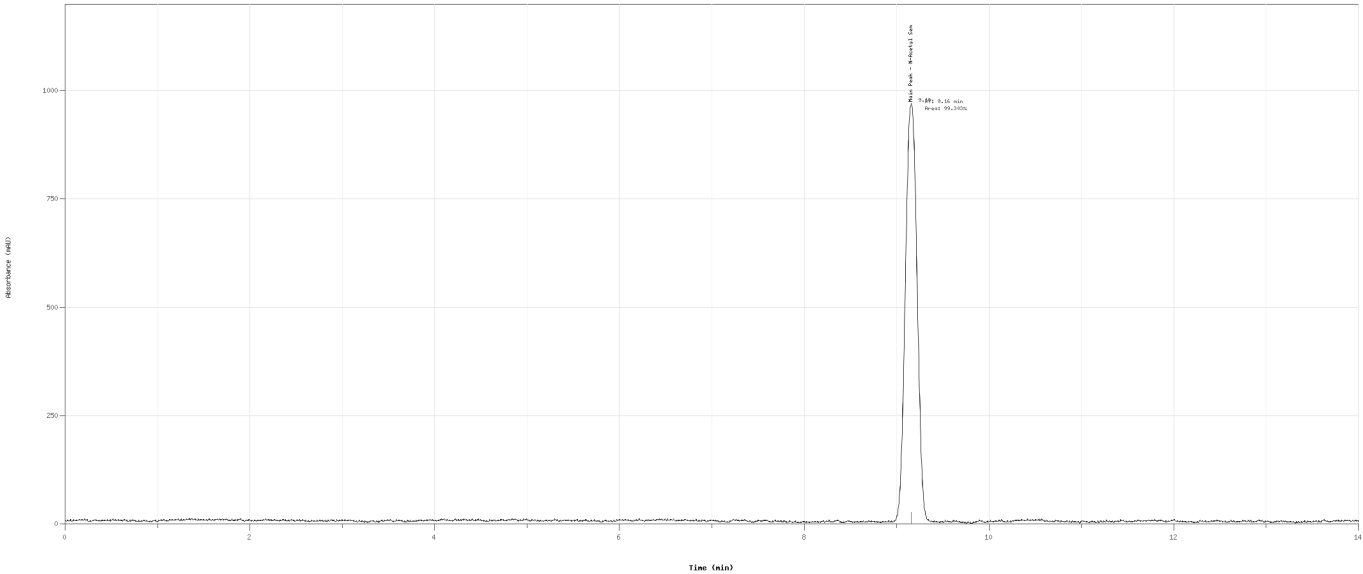
SAMPLE IMAGE

ANALYTICAL SUMMARY

IDENTITY	N-Acetyl Semax Amidate
PURITY	99.303%
QUANTITY	11.58mg
BATCH	PC-NSX10-0828U
MANUFACTURER	PeptiCoreAminos

RP-HPLC-UV CHROMATOGRAM (214 NM)
Detection: UV 214 nm | Runtime: 14.0 min

Sample ID: N-acetyl Serine Amidate
Report ID: 518-2024-00047
Method: RP-HPLC-UV N-acetyl Serine Method
Detector: UV 214 nm | Runtime: 14.0 min



METHOD

TIME	WATER + 0.1% TFA	ACETONITRILE + 0.1% TFA
0min	95%	5%
2min	95%	5%
10min	5%	95%
12min	5%	95%
14min	5%	95%

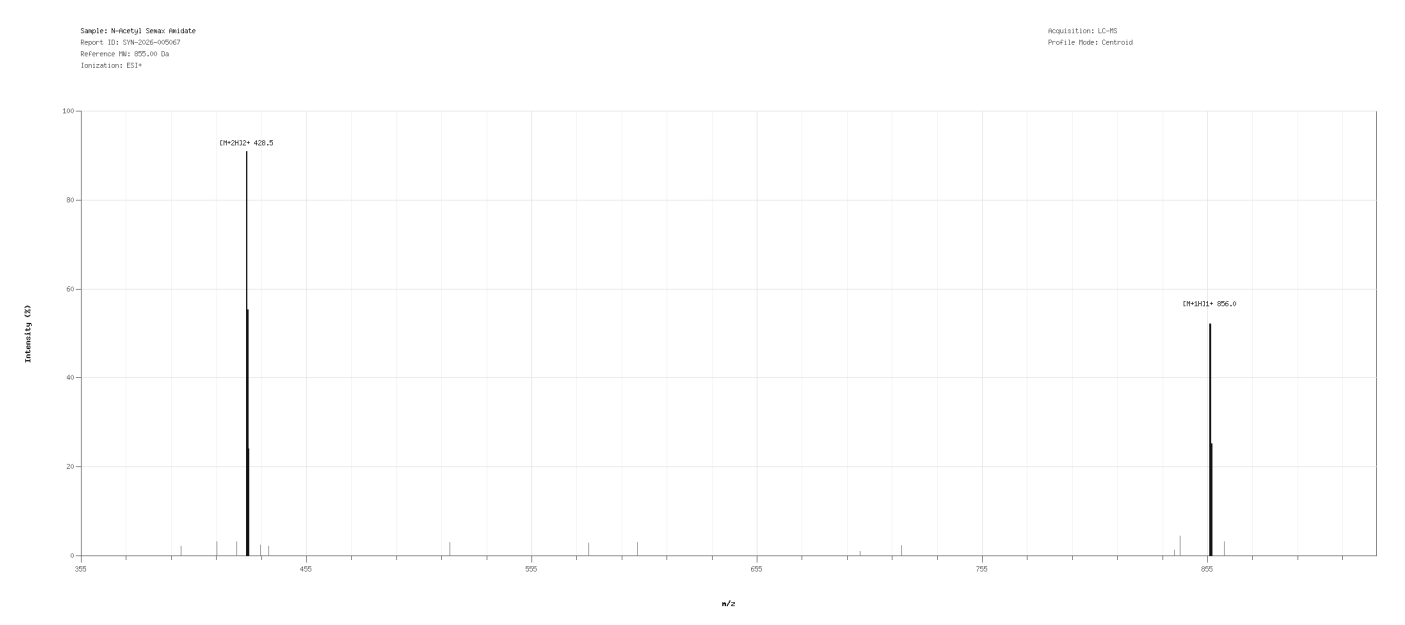
TECHNICAL NOTE

Analysis performed by RP-HPLC-UV at 214 nm using a gradient elution program. Total runtime: 14.0 minutes.

COMMENTS

The sample meets the defined analytical specifications for identity, purity and impurity profile according to the applied RP-HPLC-UV analytical review.

LC-MS MASS SPECTRUM



Charge-state distribution and isotope clustering are consistent with the expected analytical mass response.

ANALYSIS & METHODOLOGY

STANDARD PEPTIDE PURITY, MASS & ADDITIONAL TESTING

Sample analyzed by reverse-phase HPLC with UV detection using controlled analytical parameters. Chromatographic behavior and purity response were assessed through internal laboratory criteria.

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	NMT 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	N-ACETYL SEMAX AMIDATE
PUBCHEM CID	172638603
CAS	2920938-90-3
MOLECULAR FORMULA	C39H54N10O10S
MOLECULAR WEIGHT	855.0 g/mol

METHOD SPECIFICATION

PARAMETER	RP-HPLC-UV N-ACETYL SEMAX METHOD
ANALYTICAL MODE	N-Acetyl Semax peptide purity screening by RP-HPLC-UV
COLUMN	Phenomenex Biozen Peptide Polar C18, 150 x 2.1 mm, 3 µm equivalent
MOBILE PHASE A	Water + 0.1% TFA
MOBILE PHASE B	Acetonitrile + 0.1% TFA
FLOW RATE	0.4 mL/min
DETECTION	UV 214 nm
INJECTION VOLUME	0.5 µL
COLUMN TEMPERATURE	60°C
RUNTIME	14.0 min
SAMPLE DILUENT	Aqueous organic diluent compatible with peptide RP-HPLC screening
SAMPLE PREPARATION	Diluted, mixed and clarified before chromatographic review

INSTRUMENT PLATFORM

PARAMETER	STANDARD HPLC-UV PLATFORM
SYSTEM TYPE	Analytical HPLC system
DETECTOR	UV/VIS detector
ACQUISITION	Chromatographic acquisition and integration software

PARAMETER	STANDARD HPLC-UV PLATFORM
REVIEW MODE	Retention-time, UV response and mass-spectrum review
WORKFLOW NOTE	Used for routine peptide purity and identity screening
MS DETECTOR	Mass spectrometer, ESI+ acquisition
MS ACQUISITION	LC-MS spectral acquisition and processing

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

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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-2026-005067
Verification Key VK-6LP3-P8GT

SCAN TO VERIFY



DIGITAL SIGNATURE



DIGITALLY SIGNED BY:
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Director