Synaptica Analytics

Independent Laboratory Analysis Report

OFFICIAL ANALYTICAL DOCUMENT

REPORT ID
SYN-2026-005041

Analysis Report

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

SAMPLE	RECEIVED DATE	ANALYSIS DATE	REPORT GENERATED
N-Acetyl Semax Amidate	Jul 16, 2026	Jul 22, 2026	Jul 24, 2026

STRENGTH	10mg	MANUFACTURER	PepticoreAminos
BATCH NUMBER	PC-NS10-0726U	LAB CODE	982-3
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-NS10-0726U
CAP / CRIMP COLOR	Blue / Blue
RECEIVED DATE	Jul 16, 2026



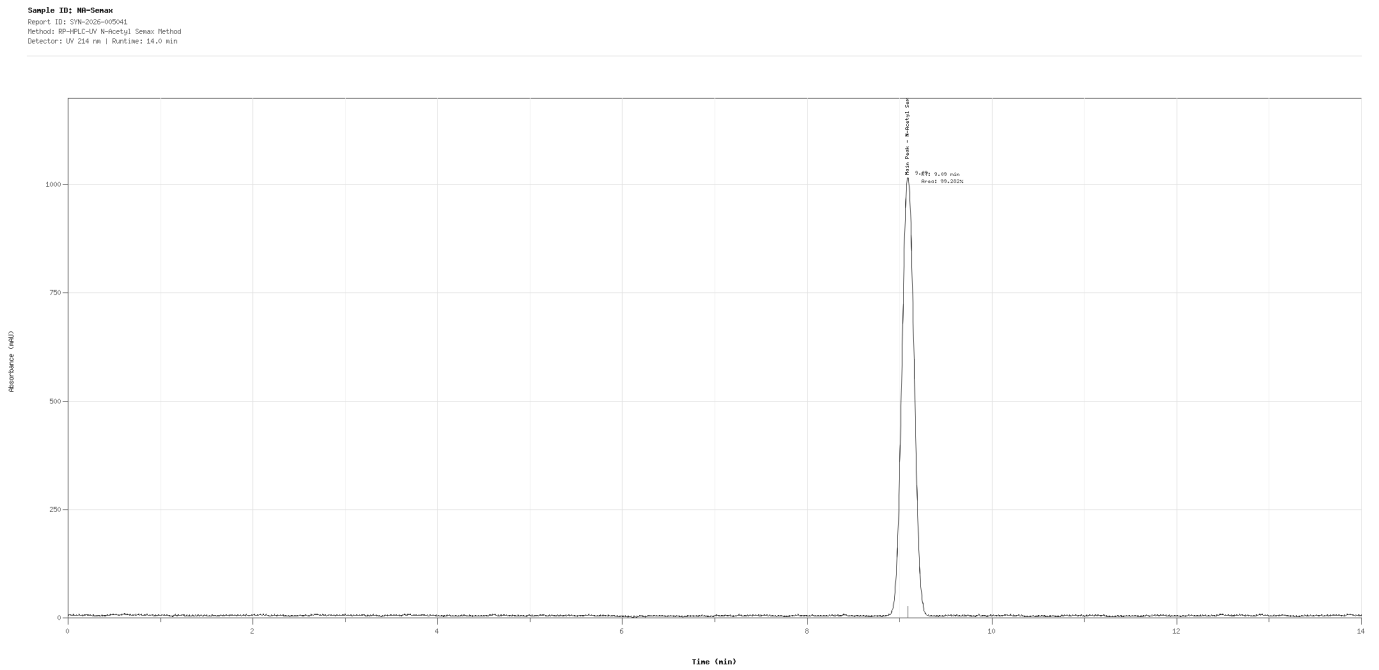
SAMPLE IMAGE

ANALYTICAL SUMMARY

IDENTITY	N-Acetyl Semax Amidate
PURITY	99.282%
QUANTITY	12.15mg
BATCH	PC-NS10-0726U
MANUFACTURER	PepticoreAminos

RP-HPLC-UV CHROMATOGRAM (214 NM)

Detection: 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%

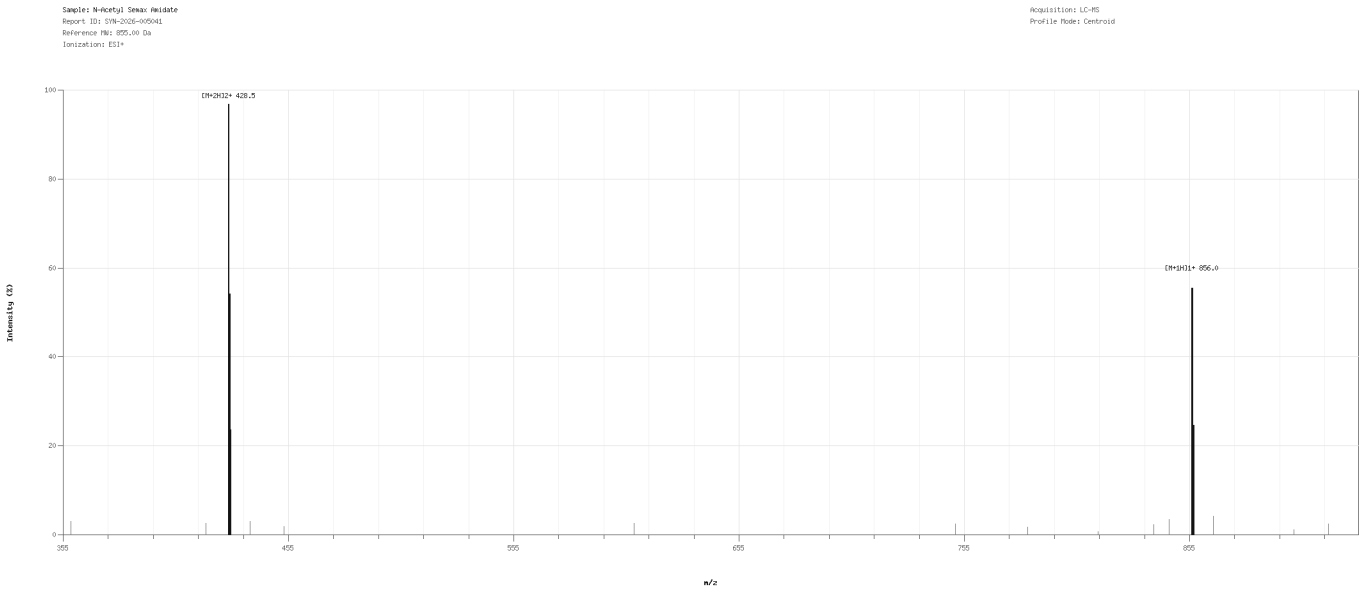
TECHNICAL NOTE

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 chromatographic impurity profile under the applied RP-HPLC-UV method.

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

Analysis performed using RP-HPLC-UV under validated laboratory conditions. Peak profile, retention behavior and purity response were evaluated against internal reference standards.

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	**< 0.003**	**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

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-2026-005041
Verification Key VK-WF2N-4XAT

SCAN TO VERIFY

DIGITAL SIGNATURE



DIGITALLY SIGNED BY:
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Date: 2026.07.24
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Director