Synaptica Analytics

Independent Laboratory Analysis Report

OFFICIAL ANALYTICAL DOCUMENT

REPORT ID
SYN-2026-004979

Analysis Report

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

SAMPLE	RECEIVED DATE	ANALYSIS DATE	REPORT GENERATED
Cartalax	May 21, 2026	May 26, 2026	May 27, 2026

STRENGTH	25mg	MANUFACTURER	PepticoreAminos
BATCH NUMBER	PC-CX25-1512U	LAB CODE	928-1
CLIENT	www.pepticoreaminos.net		

SAMPLE INFORMATION

Cartalax

25MG

FORM	White lyophilized powder in a glass vial
SAMPLE SUBMISSION	Sample provided by customer
BATCH	PC-CX25-1512U
CAP / CRIMP COLOR	blue/blue
RECEIVED DATE	May 21, 2026

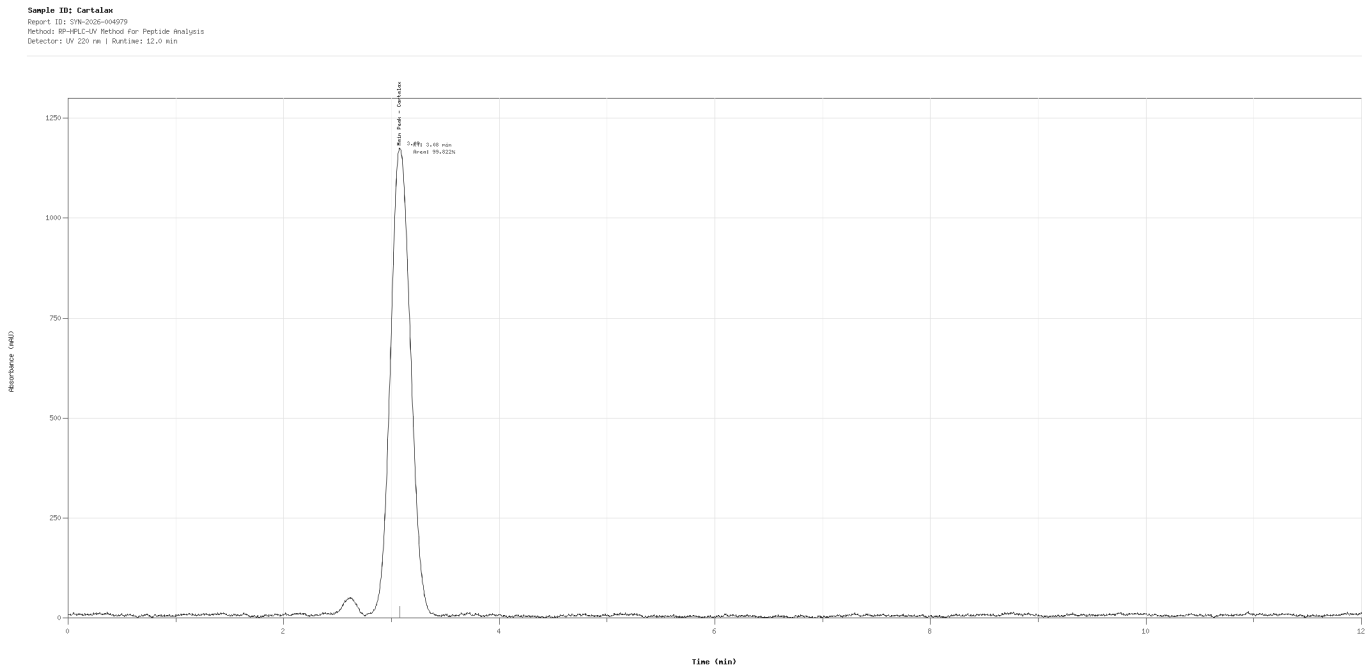
SAMPLE IMAGE

ANALYTICAL SUMMARY

IDENTITY	Cartalax
PURITY	99.822%
QUANTITY	29.52mg
BATCH	PC-CX25-1512U
MANUFACTURER	PepticoreAminos

RP-HPLC-UV CHROMATOGRAM (220 NM)

Detection: UV 220 nm | Runtime: 12.0 min



METHOD

TIME	H2O + 0.1% TFA	ACN + 0.1% TFA
0min	95%	5%
2min	95%	5%
10min	8%	92%
12min	8%	92%

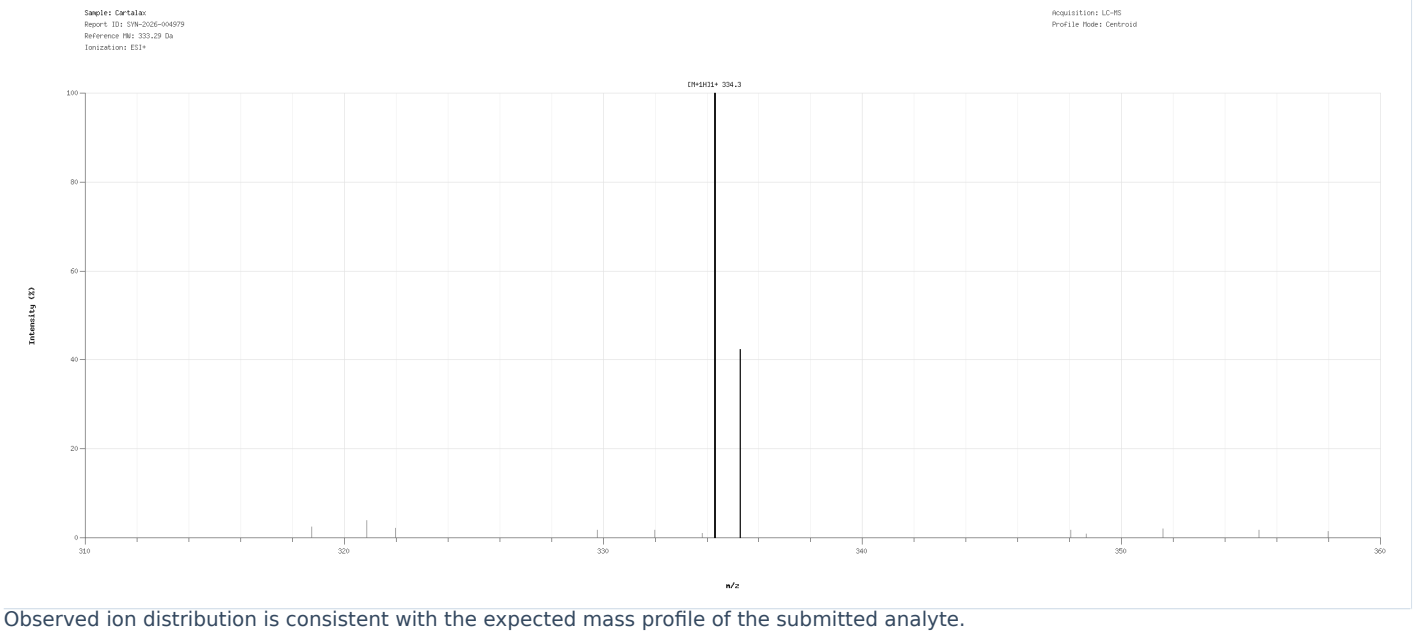
TECHNICAL NOTE

Results reported herein apply exclusively to the sample received and analyzed by the laboratory. Total runtime: 12.0 minutes.

COMMENTS

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

LC-MS MASS SPECTRUM



Observed ion distribution is consistent with the expected mass profile of the submitted analyte.

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	**< 0.001**	**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	CARTALAX
PUBCHEM CID	87815447
MOLECULAR FORMULA	C12H19N3O8
MOLECULAR WEIGHT	333.29 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	1.0 mL/min
DETECTION	UV 220 nm
INJECTION VOLUME	10 uL
RUNTIME	12.0 min
SAMPLE DILUENT	Water/acetonitrile compatible diluent
SAMPLE PREPARATION	Diluted to working concentration and filtered/clarified

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
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

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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-2026-004979
Verification Key VK-QKXY-GWYJ

SCAN TO VERIFY

DIGITAL SIGNATURE

DIGITALLY SIGNED BY:
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Date: 2026.05.27
09:24:37 +02'00'
Director