

Analysis Report

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

SAMPLE ARA-290	RECEIVED DATE May 27, 2026	ANALYSIS DATE May 28, 2026	REPORT GENERATED May 29, 2026
STRENGTH	16mg	MANUFACTURER	PeptiCoreAminos
BATCH NUMBER	PC-ARA2510U	LAB CODE	982-3
CLIENT	www.peptiCoreAminos.net		

SAMPLE INFORMATION

ARA-290

16MG**FORM** White lyophilized powder in a glass vial**SAMPLE SUBMISSION** Sample provided by customer**BATCH** PC-ARA2510U**CAP / CRIMP COLOR** Blue/red**RECEIVED DATE** May 27, 2026

SAMPLE IMAGE

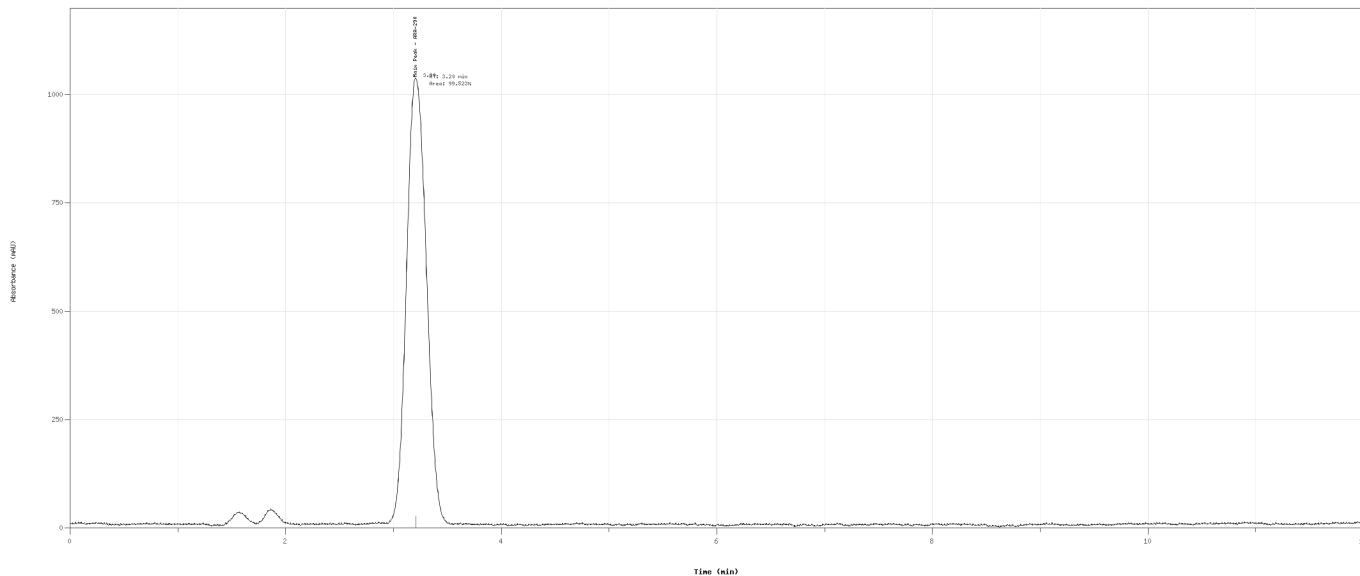
ANALYTICAL SUMMARY

IDENTITY	ARA-290
PURITY	99.523%
QUANTITY	17.55mg
BATCH	PC-ARA2510U
MANUFACTURER	PeptiCoreAminos

RP-HPLC-UV CHROMATOGRAM (220 NM)

Detection: UV 220 nm | Runtime: 12.0 min

Sample ID: 889-290
Report ID: 2024-02-09-00075
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	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.

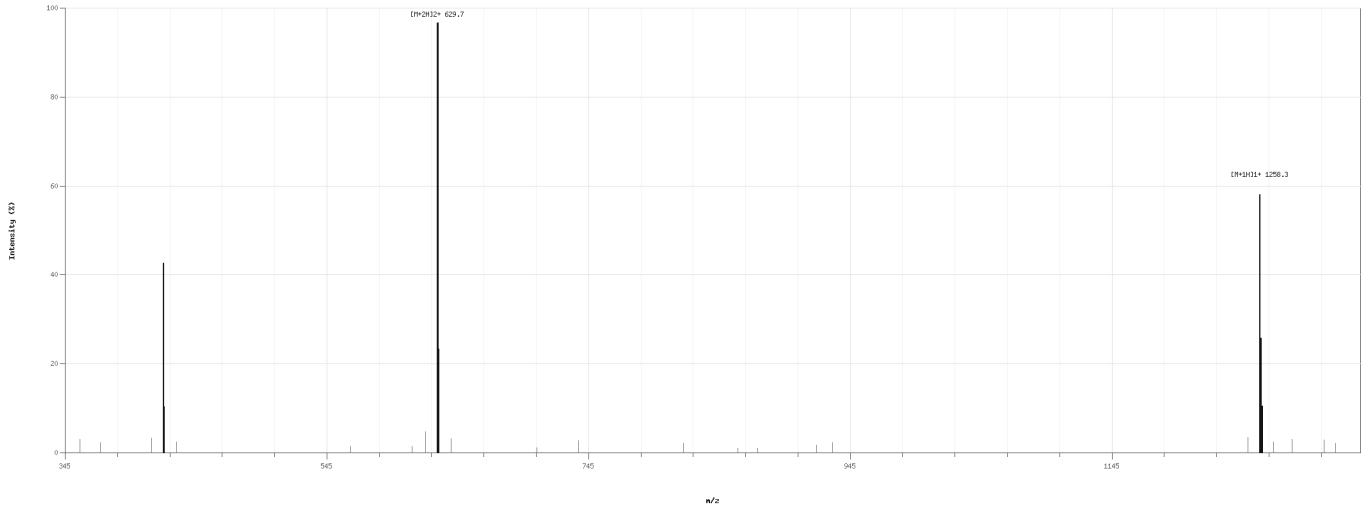
COMMENTS

The sample complies with the defined analytical specifications for identity, purity and impurity profile under the applied RP-HPLC-UV method.

LC-MS MASS SPECTRUM

Sample: A09-290
 Report: 121-1218-2025-044975
 Reference PK: 1257_3.Da
 Ionization: ESI+

Acquisition: LC-MS
 Profile: None - Centroid



The recorded mass spectrum shows signals compatible with the expected molecular profile of the sample.

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	ARA-290
PUBCHEM CID	91810664
CAS	1208243-50-8
MOLECULAR FORMULA	C51H84N16O21
MOLECULAR WEIGHT	1257.3 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

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-2026-004975

Verification Key VK-W4FP-23ZR

SCAN TO VERIFY



DIGITAL SIGNATURE



DIGITALLY SIGNED BY:

Martin Saar

Date: 2026.05.29

18:27:41 +02'00'

Director

info@synaptica-labs.com

Analysis date: May 28, 2026

Report generated: May 29, 2026

Analytical testing performed by Synaptica Analytics -

Analytical Services Division

Synaptica Analytics
SYN-2026-004975
Laboratory Analysis Report
VK-W4FP-23ZR

VERIFY AT
synaptica-labs.com/verify-report