Synaptica Analytics

Independent Laboratory Analysis Report

OFFICIAL ANALYTICAL DOCUMENT

REPORT ID
SYN-2026-004885

Analysis Report

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

SAMPLE	RECEIVED DATE	ANALYSIS DATE	REPORT GENERATED
Pinealon	Mar 25, 2026	Mar 27, 2026	Mar 30, 2026

STRENGTH	20mg	MANUFACTURER	PepticoreAminos
BATCH NUMBER	PC-PIN20-0130U	LAB CODE	989-1
CLIENT	www.pepticoreaminos.net		

SAMPLE INFORMATION

Pinealon

20MG

FORM	White powder in a glass vial
SAMPLE SUBMISSION	Sample provided by customer
BATCH	PC-PIN20-0130U
CAP / CRIMP COLOR	green/black
RECEIVED DATE	Mar 25, 2026

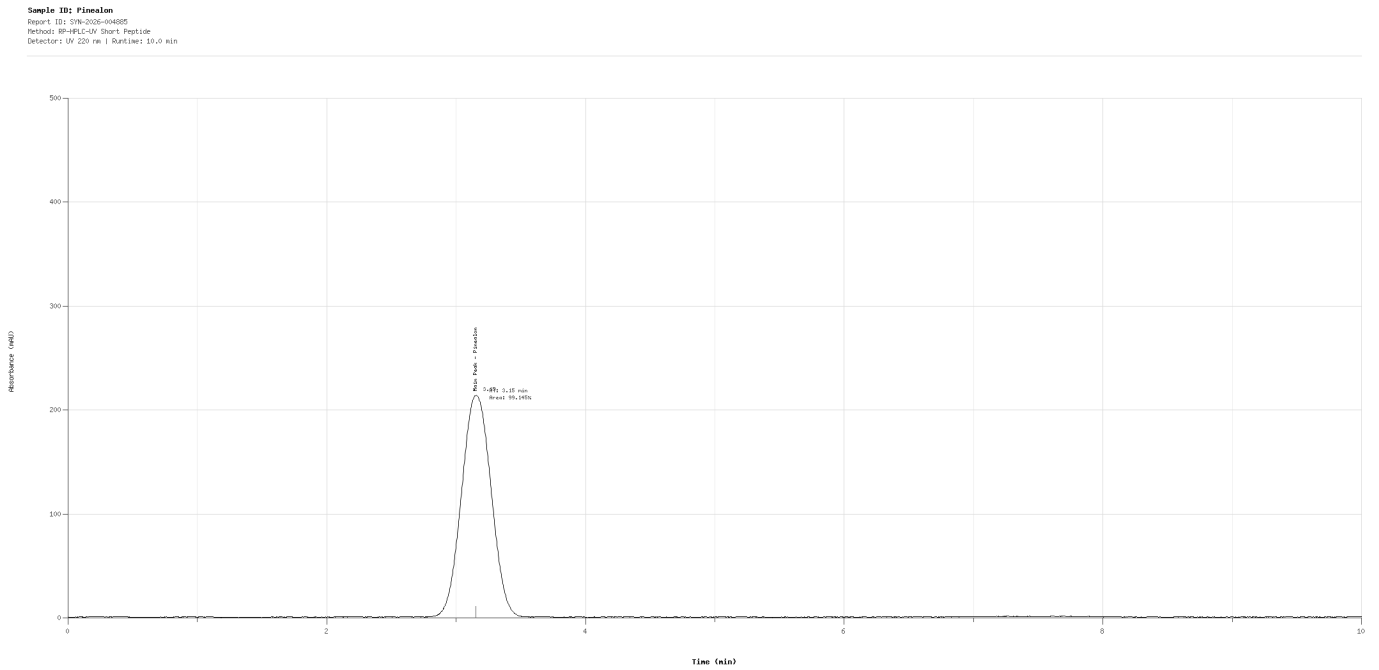
SAMPLE IMAGE

ANALYTICAL SUMMARY

IDENTITY	Pinealon
PURITY	99.145%
QUANTITY	19.9mg
BATCH	PC-PIN20-0130U
MANUFACTURER	PepticoreAminos

RP-HPLC-UV CHROMATOGRAM (220 NM)

Detection: UV 220 nm



METHOD

TIME	H2O + 0.1% TFA	ACN + 0.1% TFA
0min	96%	4%
2min	96%	4%
10min	12%	88%
12min	12%	88%

TECHNICAL NOTE

Gradient RP-HPLC-UV screening method with UV detection at 220 nm. Runtime 12.0 min.

COMMENTS

Results indicate that the sample conforms to the expected specifications with no unusual findings.

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	**< 0.001**	**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**
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.

METHOD SPECIFICATION

PARAMETER	EARLY-ELUTING SHORT PEPTIDE RP-HPLC
ANALYTICAL MODE	Short peptide RP-HPLC-UV screening
COLUMN	C18 peptide column, short-gradient configuration
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	10.0 min
SAMPLE DILUENT	Aqueous organic diluent compatible with RP-HPLC
SAMPLE PREPARATION	Direct dilution with clarification before analysis

INSTRUMENT PLATFORM

PARAMETER	STANDARD HPLC-UV PLATFORM
SYSTEM TYPE	Analytical HPLC system

PARAMETER	STANDARD HPLC-UV PLATFORM
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-2026-004885
Verification Key VK-MP4T-XLXA

SCAN TO VERIFY

DIGITAL SIGNATURE

DIGITALLY SIGNED BY:
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Date: 2026.03.30 12:56:24 +02'00'
Director