Synaptica Analytics

Independent Laboratory Analysis Report

OFFICIAL ANALYTICAL DOCUMENT

REPORT ID
SYN-2026-004977

Analysis Report

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

SAMPLE	RECEIVED DATE	ANALYSIS DATE	REPORT GENERATED
TB-500 (889 Da)	Apr 01, 2026	Apr 06, 2026	Apr 07, 2026

STRENGTH	10mg	MANUFACTURER	PepticoreAminos
BATCH NUMBER	PC-TBF-2209U	LAB CODE	982-3
CLIENT	www.pepticoreaminos.net		

SAMPLE INFORMATION

TB-500 (889 Da)

10MG

FORM	White lyophilized powder in a glass vial
SAMPLE SUBMISSION	Sample provided by customer
BATCH	PC-TBF-2209U
CAP / CRIMP COLOR	White/silver
RECEIVED DATE	Apr 01, 2026

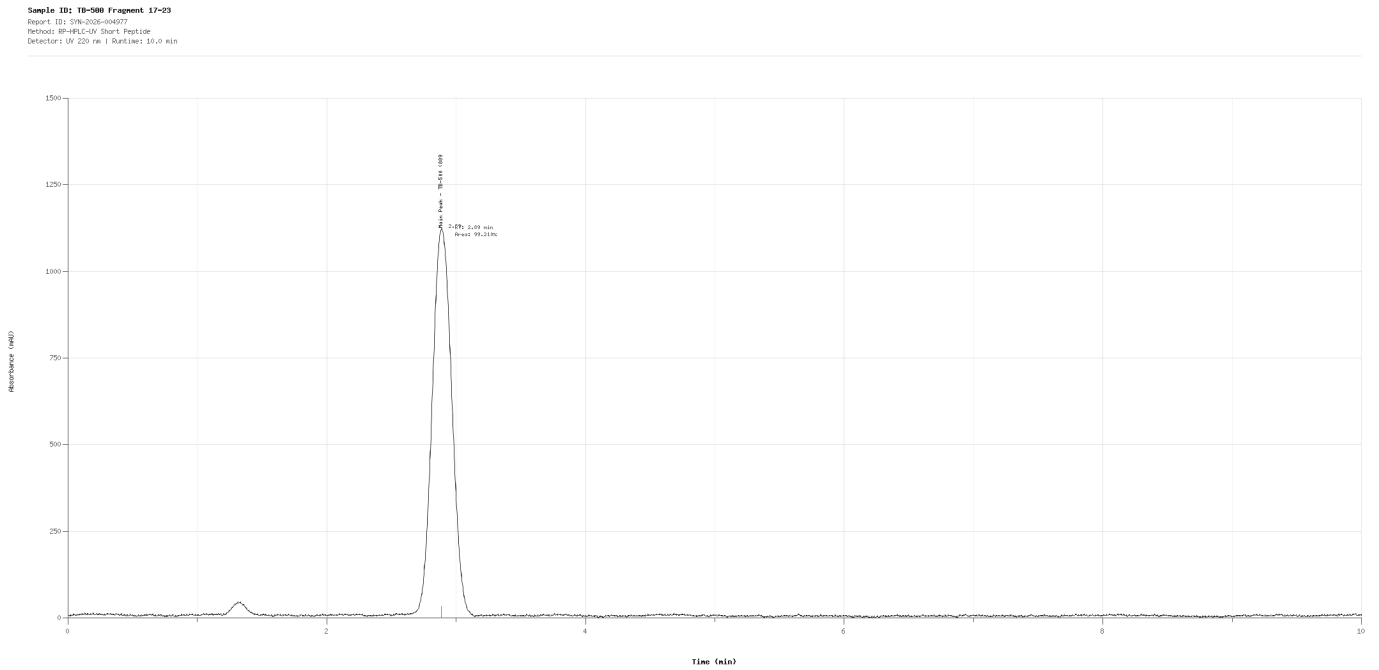
SAMPLE IMAGE

ANALYTICAL SUMMARY

IDENTITY	TB-500 (889Da)
PURITY	99.210%
QUANTITY	10.91mg
BATCH	PC-TBF-2209U
MANUFACTURER	PepticoreAminos

RP-HPLC-UV CHROMATOGRAM (220 NM)

Detection: UV 220 nm | Runtime: 10.0 min



METHOD

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

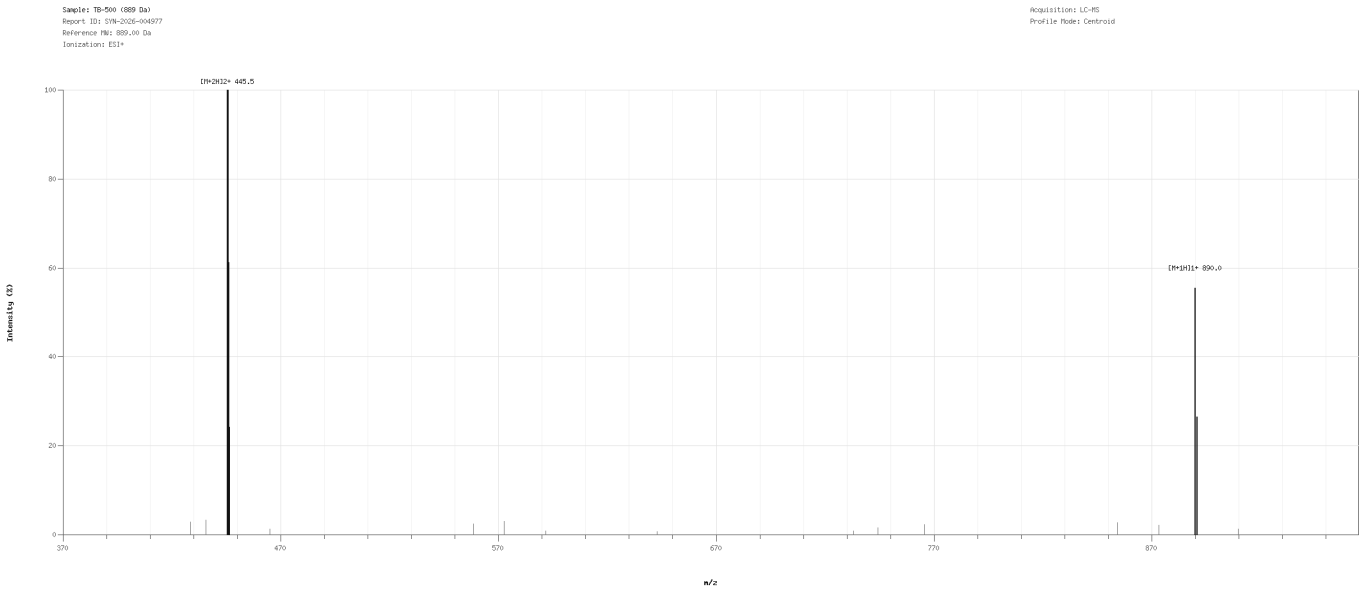
TECHNICAL NOTE

Analysis performed by RP-HPLC-UV at 220 nm using a gradient elution program. Total runtime: 10.0 minutes.

COMMENTS

The chromatographic result supports that the sample meets the defined analytical specifications for identity, purity and impurity profile based on the applied RP-HPLC-UV method.

LC-MS MASS SPECTRUM



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

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	**< 0.001**	**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.

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
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

PARAMETER	ACCEPTANCE FRAMEWORK	BASIS
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-2026-004977
Verification Key VK-FV3B-L2DR

SCAN TO VERIFY

DIGITAL SIGNATURE

DIGITALLY SIGNED BY:
Martin Saar
Date: 2026.04.07
11:04:00 +02'00'
Director