

Analysis Report

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

SAMPLE Melanotan II	RECEIVED DATE May 22, 2026	ANALYSIS DATE May 28, 2026	REPORT GENERATED May 29, 2026
STRENGTH	10mg	MANUFACTURER	PeptiCoreAminos
BATCH NUMBER	PC-MT10-0626E	LAB CODE	673-1
CLIENT	www.peptiCoreAminos.us		

SAMPLE INFORMATION

Melanotan II

10MG

FORM **White lyophilized powder in a glass vial**

SAMPLE SUBMISSION **Sample provided by customer**

BATCH **PC-MT10-0626E**

CAP / CRIMP COLOR **Black/silver**

RECEIVED DATE **May 22, 2026**



SAMPLE IMAGE

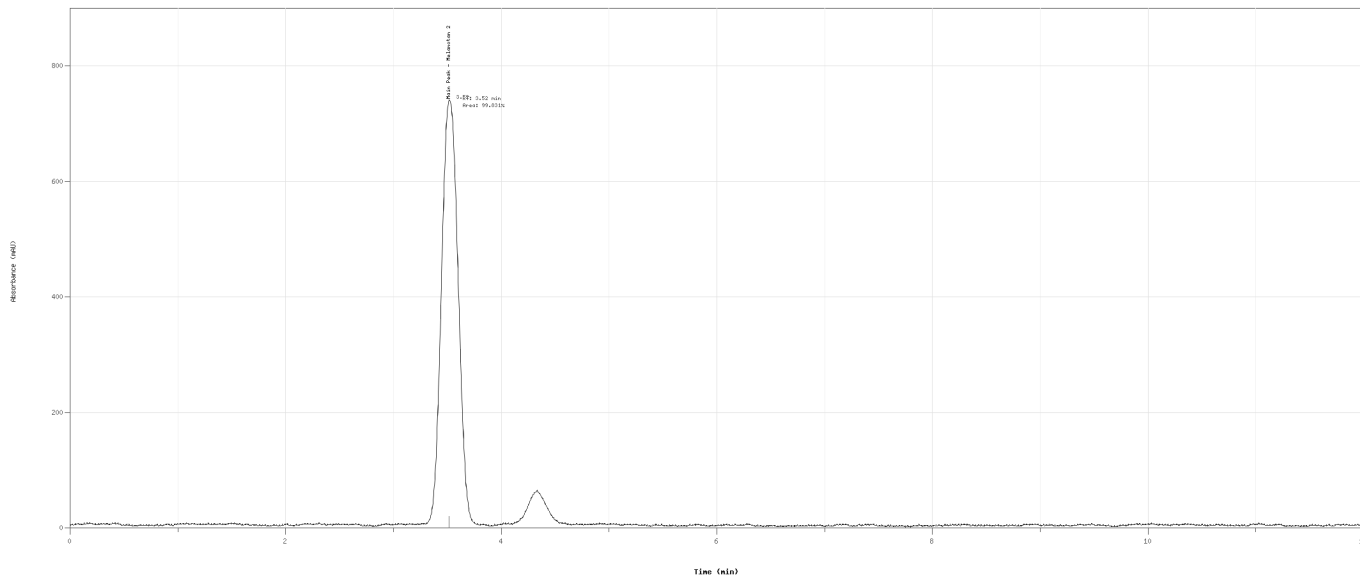
ANALYTICAL SUMMARY

IDENTITY	Melanotan II
PURITY	99.831%
QUANTITY	11.09mg
BATCH	PC-MT10-0626E
MANUFACTURER	PeptiCoreAminos

RP-HPLC-UV CHROMATOGRAM (220 NM)

Detection: UV 220 nm | Runtime: 12.0 min

Sample ID: Helixion 2
Report ID: 078-2020-04059
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	92%	8%
2min	92%	8%
10min	10%	90%
12min	10%	90%

TECHNICAL NOTE

This report reflects the analytical findings obtained for the submitted sample under the stated test conditions. Total runtime: 12.0 minutes.

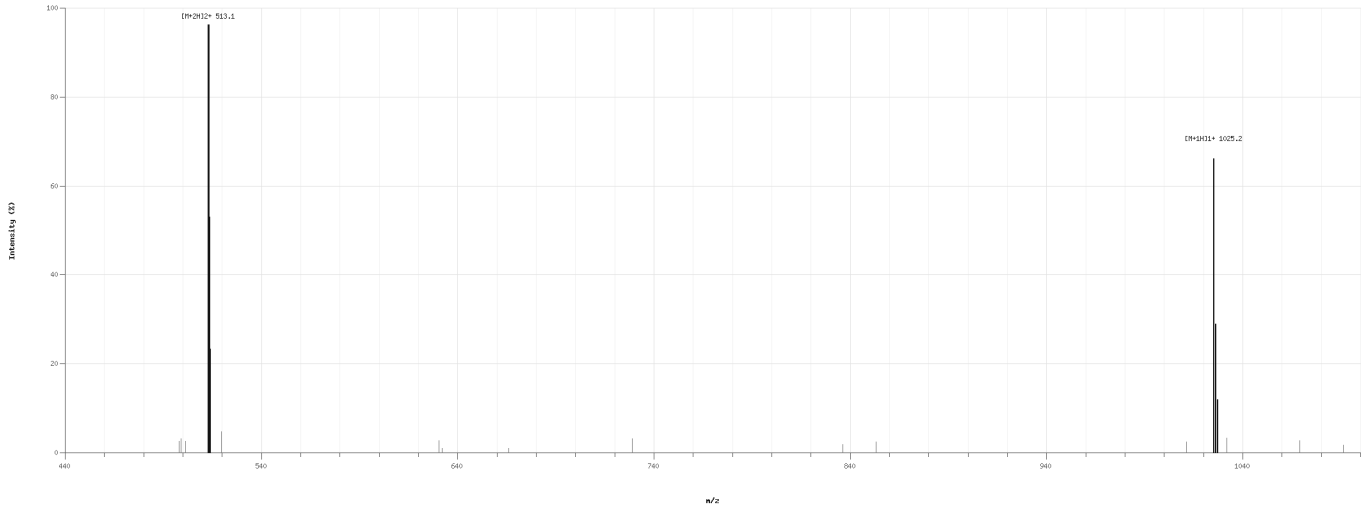
COMMENTS

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

Sample: Nebelstan 2
Report ID: 228-2023-04050
Reference PK: 1024-2 Da
Ionization: ESI+

Acquisition: LC-MS
Profile: Nebel - Centroid



Charge-state distribution and isotope clustering are consistent with the expected analytical mass response.

ANALYSIS & METHODOLOGY

STANDARD PEPTIDE PURITY, MASS & ADDITIONAL TESTING

RP-HPLC-UV analysis was conducted under standardized conditions. Retention time, peak symmetry and analytical response were reviewed against established internal benchmarks.

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	MELANOTAN II
PUBCHEM CID	92432
CAS	121062-08-6
MOLECULAR FORMULA	C50H69N15O9
MOLECULAR WEIGHT	1024.2 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	0.8 mL/min
DETECTION	UV 220 nm
INJECTION VOLUME	10 uL
RUNTIME	12.0 min
SAMPLE DILUENT	Aqueous organic diluent compatible with peptide analysis
SAMPLE PREPARATION	Diluted, mixed and clarified before injection

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-2026-004959

Verification Key VK-UU2A-2MVW

SCAN TO VERIFY



DIGITAL SIGNATURE



DIGITALLY SIGNED BY:

Martin Saar

Date: 2026.05.29

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Director

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Analysis date: May 28, 2026

Report generated: May 29, 2026

Analytical testing performed by Synaptica Analytics -

Analytical Services Division

Synaptica Analytics
SYN-2026-004959
Laboratory Analysis Report
VK-UU2A-2MVW

VERIFY AT
synaptica-labs.com/verify-report