



ELLSWORTH LABS

Certificate of Analysis

PHOENIX, ARIZONA, UNITED STATES

REPORT **EL543-26-YE1N27** REVISION **1** ISSUED **2026-08-11**

Client and sample

CLIENT peptidosliofilizados.mx		SAMPLE ID ELMS3STM9N8W	DECLARED IDENTITY MT1
DECLARED LOT / BATCH PL-MT1-260804-H	DECLARED STRENGTH 10.0 mg per vial	DECLARED FORM Lyophilized powder	RECEIVED 2026-08-04
QUANTITY RECEIVED 3 vials	CONDITION ON RECEIPT Intact, sealed		

Analytical results

TEST	RESULT	SPECIFICATION	STATUS	METHOD
Appearance	White lyophilized cake, intact and free of visible foreign matter	Conforms to specification	PASS	EL-PH-804 rev 5 Appearance and visual description
Accurate-mass agreement — Melanotan 1	+2.0 ppm 1645.8398 Da observed · 1645.8365 Da theoretical	Within ± 5 ppm of theoretical	PASS	EL-ID-102 rev 3 Peptide accurate-mass characterization and agreement assessment
Chromatographic purity	99.78 % area	NLT 98.0 % area	PASS	EL-PU-201 rev 5 Chromatographic purity and related substances
Total related substances	0.22 % area	NMT 2.0 % area	PASS	EL-PU-201 rev 5 Chromatographic purity and related substances
Net peptide content	10.29 mg/vial	9.5 – 10.5 mg/vial	PASS	EL-CT-301 rev 2 Specific peptide assay against reference standard

TEST	RESULT	SPECIFICATION	STATUS	METHOD
Water content	2.7 % w/w	NMT 5.0 % w/w	PASS	EL-CO-404 rev 5 Water determination by coulometric titration
Counterion content	6.0 % w/w	NMT 20.0 % w/w	PASS	EL-CO-403 rev 3 Counterion determination
Residual solvents	171 ppm	NMT 5000 ppm	PASS	EL-GC-504 rev 2 Residual solvent determination by headspace GC-MS
Elemental impurities	2.6 µg/g	NMT 5.0 µg/g	PASS	EL-EI-603 rev 1 Elemental impurities by tandem mass spectrometry
Bacterial endotoxins	< 0.05 EU/mg	NMT 1.0 EU/mg	PASS	EL-MB-701 rev 3 Bacterial endotoxins: kinetic chromogenic assay
Sterility	No growth in either medium at 14 days	No growth in either medium at 14 days	PASS	EL-MB-708 rev 3 Sterility test by membrane filtration

Conclusion

PASS The submitted sample met the specifications tested.

Review, release and verification

ANALYST

J. Brown

QUALITY RELEASE

D. Howard



VERIFY AT
ellsworthlabs.com/v
 VERIFICATION KEY
 VM13-ATJM-8ZK1

RECORD DIGEST · SHA-256

547E AA42 C310 D09E C146 312A 2CDD D88E
 81E6 1D72 6CF6 87CF 5819 39E8 BF66 CFA3

Digest of this certificate's canonical record. The verification page recomputes it from the stored record and displays it for comparison; if a single character of the content above were altered, this value would not match.

Determinations were performed under Ellsworth Labs internal procedures following the United States Pharmacopeia chapters cited against each result, under cGMP-aligned documentation practice.