VANTAGE AMINOS

RESEARCH PEPTIDES · UNITED STATES

CERTIFICATE OF ANALYSIS

Document **COA-VA-2512-5776** · Rev **1.0** · Issued **2026-07-26**

PRODUCT

MT-2

Melanotan II, MT-2

CATALOG	VA-MT2-10MG
CAS	121062-08-6
FORMULA	C50H69N15O9
MOL. WEIGHT	1024.2 avg · 1023.54 monoisotopic
SEQUENCE	Ac-Nle-cyclo[Asp-His-D-Phe-Arg-Trp-Lys]-NH2
FORM	Lyophilized powder
FILL WEIGHT	10 mg
CONTAINER	3 mL vial

BATCH

BATCH IDENTIFIER

VA-2512-5776

MANUFACTURED	2026-04-22
FILLED	2026-05-12
ANALYSED	2026-05-16
RETEST BY	2028-04-22
STORAGE	Refrigerated, 2–8 °C, protected from light

RESULTS

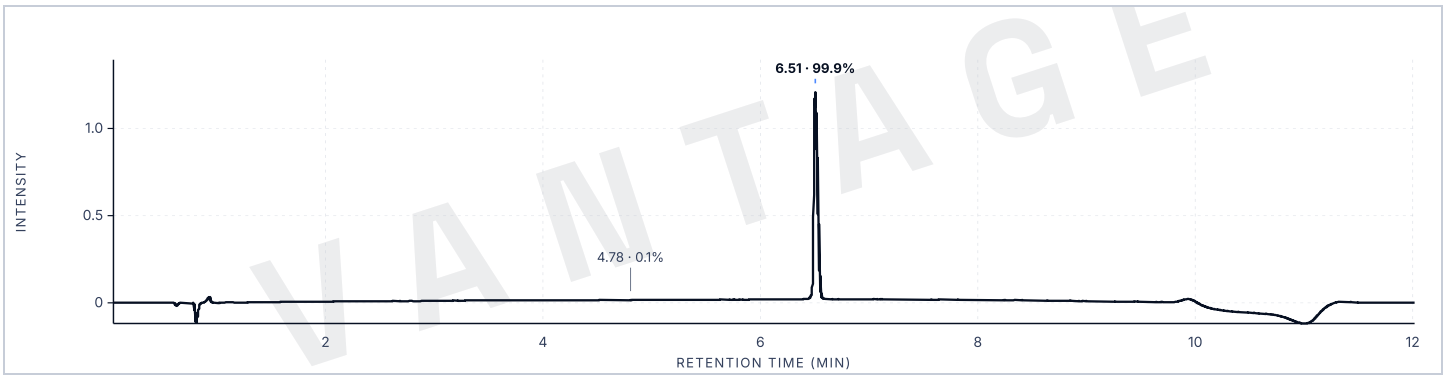
TEST / METHOD	SPECIFICATION	RESULT	STATUS
Appearance Visual inspection (Vantage Aminos)	White lyophilized powder	**Conforms**	PASS
Identity HPLC-UV-MS, positive polarity (+MS)	Theoretical mass ± 1.0 Da	**1023.62 Da (theor. 1023.54)**	PASS
Purity HPLC-UV, area % · DAD 210.1-288.3 nm	≥ 98.0 %	**99.90 %**	PASS
Quantity Quantitation as reported	90–110 % of label (10 mg)	**9.803 mg (98.0 % of label)**	PASS
Largest single impurity HPLC-UV, area %	Report	**0.1 % at 4.78 min**	REPORT
Water content Karl Fischer titration	≤ 8 % w/w	**6.51 % w/w**	PASS

HOW TO VERIFY THIS CERTIFICATE

1. All units are shipped from the most recent batch. Confirm the compound and fill weight shown above match the product you ordered.
2. This certificate is published on the product page at **https://vantageaminos.co/product/melanotan-2-mt2/**, alongside the certificate for every other batch of this product.
3. Any question about this analysis: contact **support@vantageaminos.co** quoting the batch identifier above.

Research use only. All Vantage Aminos products are intended strictly for in-vitro laboratory research by qualified professionals. Not for human or veterinary use.

HPLC CHROMATOGRAM



UV chromatogram, 210.1-288.3 nm

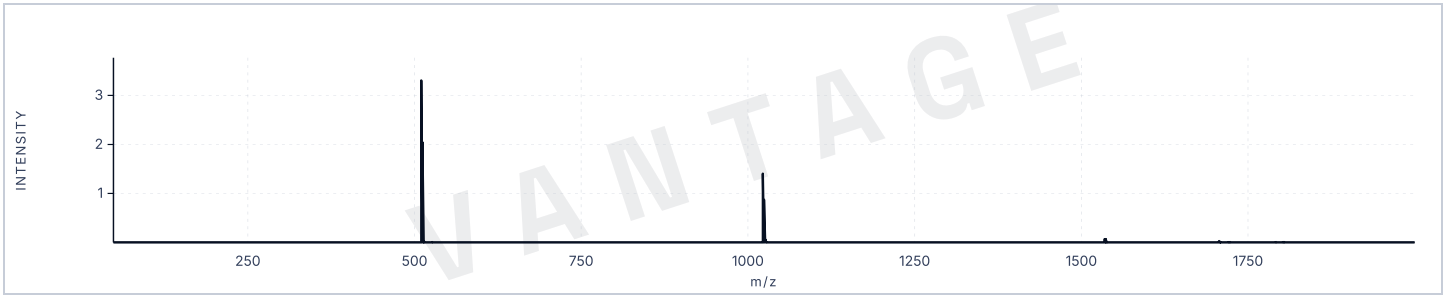
PEAK INTEGRATION

RT (MIN)	AREA	AREA %	ASSIGNMENT
4.78	3.02E+01	0.1	unassigned
6.51	2.97E+04	99.9	Melanotan II

MASS SPECTROMETRY

Technique	HPLC-UV-MS (as printed on certificate)
Ionisation	Positive polarity (+MS)
Scan range	m/z 48.5 – 1999.8 (as plotted)
Theoretical mass	1023.54 Da
Observed mass	1023.62 Da
Deviation	+0.08 Da

MASS SPECTRUM



Full-scan mass spectrum. Base peak m/z 512.81

HPLC METHOD

Technique	Reverse-phase HPLC with UV detection, MS confirmation
Detection	210.1-288.3 nm (DAD range, not a single wavelength)