

PRODUCT

MOTS-c

CATALOG	VA-MOTSC-10MG
CAS	1627580-64-6
FORMULA	C101H152N28O22S2
MOL. WEIGHT	2174.6 avg · 2173.11 monoisotopic
SEQUENCE	Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg
FORM	Lyophilized powder
FILL WEIGHT	10 mg
CONTAINER	3 mL vial

BATCH

BATCH IDENTIFIER	
VA-2512-9700	
MANUFACTURED	2026-04-24
FILLED	2026-05-12
ANALYSED	2026-05-16
RETEST BY	2028-04-24
STORAGE	Refrigerated, 2–8 °C, protected from light

RESULTS

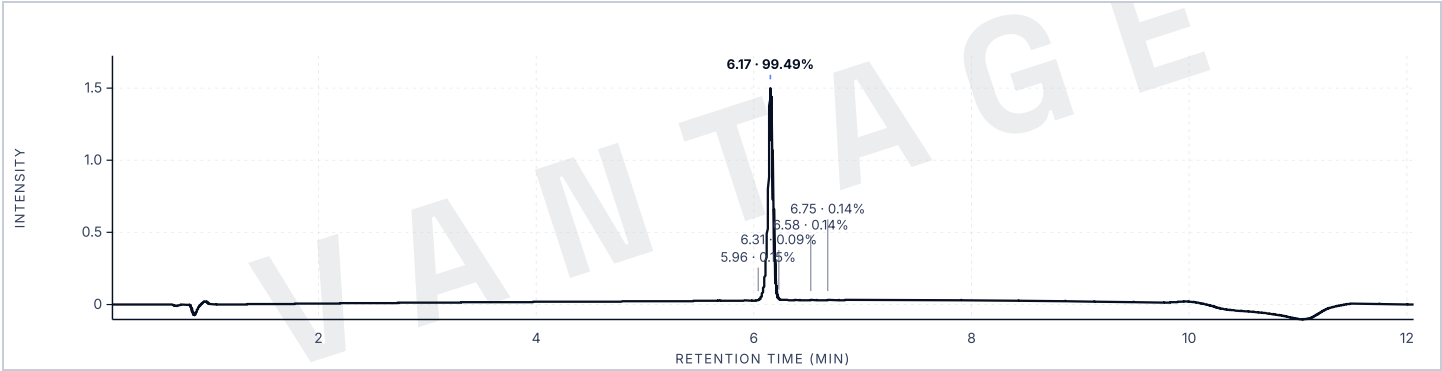
TEST / METHOD	SPECIFICATION	RESULT	STATUS
Appearance Visual inspection (Vantage Aminos)	White lyophilized powder	Conforms	PASS
Identity HPLC-UV-MS, positive polarity (+MS)	Theoretical mass ± 1.0 Da	2173.16 Da (theor. 2173.11)	PASS
Purity HPLC-UV, area % · DAD 209.9-288.3 nm	≥ 98.0 %	99.49 %	PASS
Quantity Quantitation as reported	90–110 % of label (10 mg)	10.092 mg (100.9 % of label)	PASS
Largest single impurity HPLC-UV, area %	Report	0.15 % at 5.96 min	REPORT
Water content Karl Fischer titration	≤ 8 % w/w	4.81 % 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/mots-c/>, 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, 209.9-288.3 nm

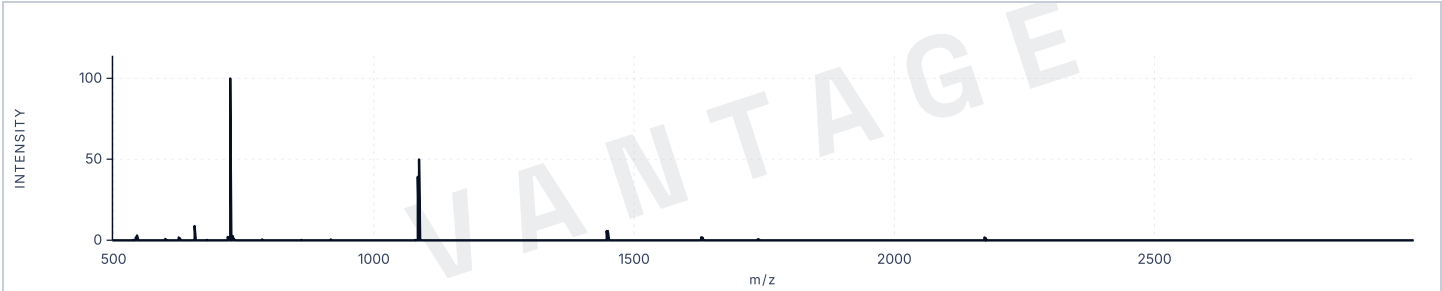
PEAK INTEGRATION

RT (MIN)	AREA	AREA %	ASSIGNMENT
5.96	7.04E+01	0.15	unassigned
6.17	4.74E+04	99.49	MOTS-C
6.31	4.06E+01	0.09	unassigned
6.58	6.49E+01	0.14	unassigned
6.75	6.74E+01	0.14	unassigned

MASS SPECTROMETRY

Technique	HPLC-UV-MS (as printed on certificate)
Ionisation	Positive polarity (+MS)
Scan range	m/z 497.7 – 2997.6 (as plotted)
Theoretical mass	2173.11 Da
Observed mass	2173.16 Da
Deviation	+0.05 Da

MASS SPECTRUM



Full-scan mass spectrum. Base peak m/z 725.72

HPLC METHOD

Technique	Reverse-phase HPLC with UV detection, MS confirmation
Detection	209.9-288.3 nm (DAD range, not a single wavelength)