



MOTS-c

CAS NUMBER
1627580-64-6MOLECULAR FORMULA
C101H152N28O22S2MOLECULAR WEIGHT
2174.6 g/molLOT NUMBER
MOT-2412CDATE OF ANALYSIS
August 21, 2026RETEST DATE
August 20, 2028ANALYTICAL LABORATORY
Third-party HPLC/MS

SEQUENCE

Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Appearance	Visual	White to off-white lyophilized powder	Conforms
Identity (molecular mass)	ESI-MS	2174.6 g/mol +/- 1.0 Da	2174.2 Da
Purity	RP-HPLC, UV 214 nm	NLT 98.0%	98.90%
Single largest impurity	RP-HPLC, UV 214 nm	NMT 1.0%	0.23%
Water content	Karl Fischer titration	NMT 8.0%	3.3%
Acetate content	Ion chromatography	NMT 15.0%	6.8%
Peptide content	Nitrogen determination	NLT 80.0%	91.2%
Residual solvents	GC headspace, ICH Q3C	Meets ICH limits	Conforms
Bacterial endotoxins	LAL, USP <85>	< 1.0 EU/mg	Conforms

CONFORMS — lot MOT-2412C meets all specifications listed above.

CHROMATOGRAPHIC CONDITIONS

Column: C18 reversed phase, 4.6 × 250 mm, 5 µm, 100 Å
Mobile phase A: 0.1% TFA in water · B: 0.1% TFA in acetonitrile
Gradient: 5-65% B over 30 min · Flow: 1.0 mL/min · 25 °C
Detection: UV 214 nm · Injection volume: 20 µL
Mass spectrometry: ESI, positive ion mode

STORAGE & HANDLING

Lyophilized: -20°C, protected from light.

RELEASED BY

Quality Control, Ascendtials LLC

DATE OF ISSUE

August 21, 2026

FOR LABORATORY RESEARCH USE ONLY — NOT FOR HUMAN OR VETERINARY USE.

This certificate applies only to the lot identified above. Not for use in food, drugs, medical devices, or cosmetics.

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