



CERTIFICATE OF ANALYSIS

Product Name	MOTS-c (Cat.# 319108, >99% purity)
Lot No.	7809-1005
Sequence	Tyr-Arg-Trp-Leu-Thr-Tyr-Tyr-Tyr-Pro-Phe-Arg-Pro-Arg-Thr-Ser-Ser-Asn-Gly-Ser-Ser-Pro-Arg (Mitochondrial-derived peptide)
Dissolution condition	100% H2O
Length	16AA
Modification	None
Molecular Weight (MW)	2174.44
Storage	-20°C

	Specifications	Results
Appearance	White to off-white lyophilized powder	Conforms
MW by MS	2174.4±1Da	2174.3Da
Dissolution	Tested: Water PBS DMSO	Water: soluble, 100mg/ml PBS: soluble, 100mg/ml DMSO: soluble, 100mg/ml
pH value	7.0–8.0	7.3
TFA	≤0.5%	0%, undetectable
Acetate	≤5.0%	0%, undetectable
Sodium salt	≤5.0%	0.9%
Purity	≥99.0%	99.31%
Impurity — Single	≤1.0%	0.4%
Impurity — Total	≤2.0%	0.4%
Polymer	≤0.5%	0.05%
Net peptide content (NPC)	≥85.0%	96.4%
Water	≤8.0%	4.5%

Certified by:
Quality Assurance Department

Apr/03/2026



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	Specifications	Results
Methanol	≤0.3%	0.02%
Acetonitrile	≤0.041%	0.005%
Dichloromethane	≤0.06%	0%, undetectable
Methyl-t-Butyl Ether	≤0.5%	0%, undetectable
N,N-Dimethylformamide	≤0.088%	0%, undetectable
Threonine	1.6~2.4	1.9
Serine	2.4~3.6	3.5
Glycine	1.6~2.4	1.9
Tyrosine	3.2~4.8	4.4
Phenylalanine	1.6~2.4	2.3
Leucine	1.6~2.4	1.9
Proline	2.4~3.6	2.9
Endotoxin	≤10 EU/mg	Conforms
Microorganism limit — Aerobic bacteria	≤10 ³ cfu/g	Conforms
Microorganism limit — Moulds and yeasts	≤10 ³ cfu/g	Conforms

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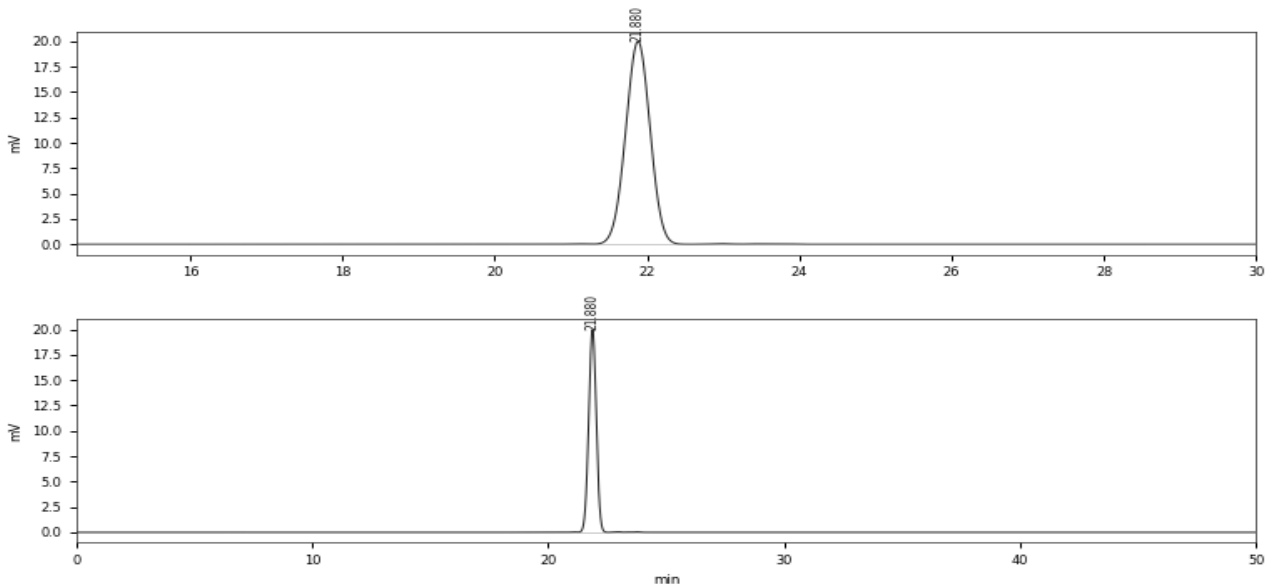
Apr/03/2026

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Single Injection Report

Sequence Name : MOTS-c
 Sample name : 7809
 Sample ID : 7809
 Data file name : 7809.lcd
 Method File Name : TZP-52min.lcm
 Batch file name : 260403-01.lcb
 Sample bottle number : 1-6
 Injection volume : 10 uL
 Date of analysis : 2026/04/03 23:01:53
 Date of processing : 2026/04/03 23:53:54

VWD1A, Wavelength = 214 nm

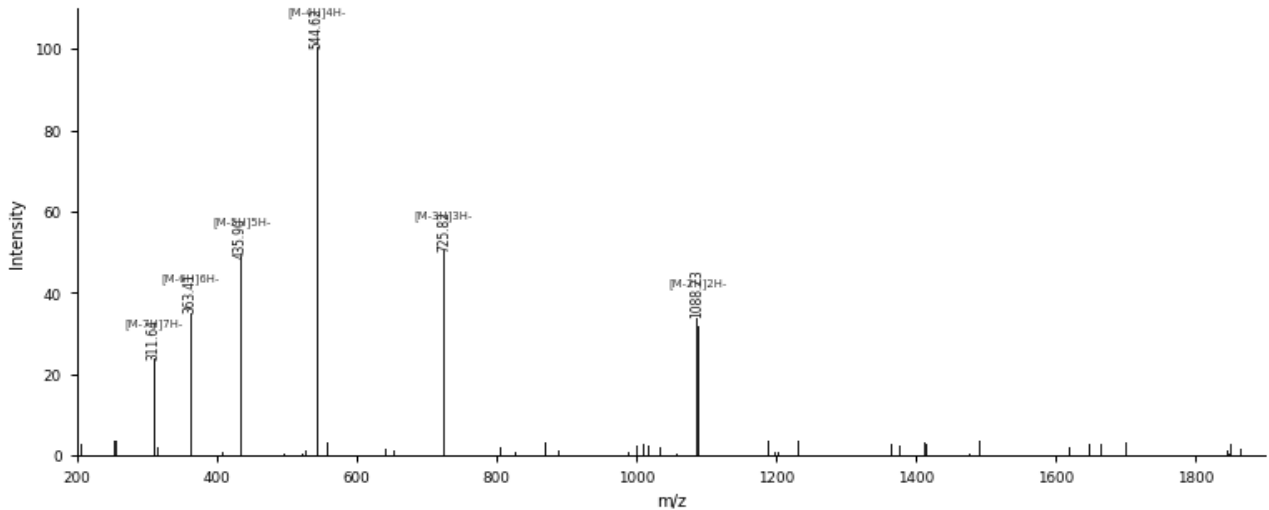


Signal: VWD1A, Wavelength = 214 nm

	RT [min]	Area	Height	Area%	Plate_number	Tailing factor	Resolution
1	21.08	16113	737	0.164	28041	--	--
2	21.88	9775377	420894	99.31	10159	2.1	0.8
3	22.98	20098	881	0.204	3405	--	0.8
4	23.43	13514	586	0.137	32399	--	0.7
5	23.78	18192	870	0.185	62329	--	0.7
		9843294	442948	100.000			

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MS Spectrum



Sample Information

Dissolution method	:15%ACN+85%H2O	Interface	:ESI
Date Acquired	:2026/04/03 14:32:27	Nebulizing Gas Flow	:1.5L0/min
Injection Volume	:0.2ul	CDL Temp	:250°C
Block Temp	:200	CDL Volt	:0v
		Prerod Bias	:+4.5kv
		Detector	:-0.2kv
		T.Flow	:0.2ml/min
		B.conc	:50%H2O/50%MEOH

Order ID :7809
 Name :MOTS-c
 Sequence :Tyr-Arg-Trp-Leu-Thr-Tyr-Tyr-Tyr-Pro-Phe-Arg-Pro-Arg-Thr-Ser-Ser-Asn-Gly-Ser-Ser-Pro-Arg (Mitochondrial-derived peptide)
 Lot.No :7809-1005
 Theoretical :2174.44
 Observed :2174.3