

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	MOTS-c
Lot No.:	VI2120260204-10
Sequence:	Met - Arg - Trp - Gln - Glu - Met - Gly - Tyr - Ile - Phe - Tyr - Pro - Arg - Lys - Leu - Arg
Modifications:	N/A

Quality Control

Test Items	Specifications	Results
Appearance	White to off-white lyophilized powder	White to off-white lyophilized powder (Conforms)
Molecular Weight (MS)	2174.63±1.0 Da	2174.60 Da
Purity by HPLC	>98%	99.4%
Retention Time (HPLC)	±0.2min of Standard	Conforms
Assay	80.0% ~ 120.0%	115.8%
Solubility	10 mg/1ml H ₂ O	Clearly soluble
Loss on Drying	≤10.0%	1.6%
Water Content	≤8.0%	1.6%
Visible Particulate Matter	The sampling inspection results meet the requirements of AQL 0.65%	Conforms
Subvisible Particulate Matter	≤6000 counts/container ≥10um ≤600 counts/container ≥25um	Conforms
Content Uniformity	AV ≤15.0	Conforms
Acetic Acid Content	≤12.0%	8.4%
TFA Content	≤0.500%	Conforms
DCM Content	≤0.060%	N.D.
DMF Content	≤0.088%	N.D.
Total Aerobic Count	≤100CFU/g	Conforms
Yeast & Molds Count	≤100CFU/g	Conforms
Endotoxins	≤0.5EU/mg	Conforms

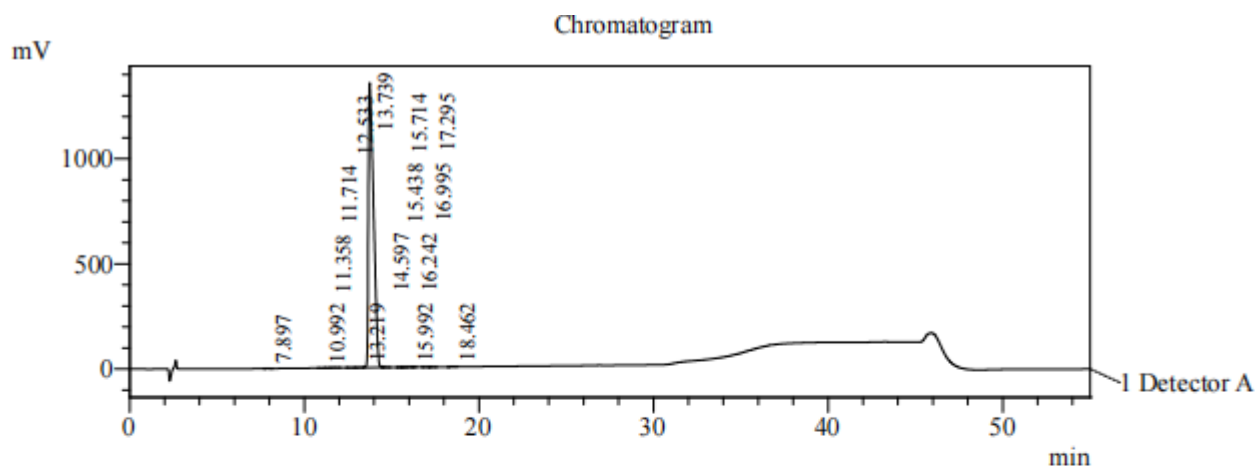
Storage Conditions: -20°C.

Date of Mfg: 04 Feb 2026

Sample Information

Lot. No	VI2120260204-10
Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	0.8ml/min
Wavelength	220nm
Analytical column type	Phenomenex Luna 3um C18(2) (4.6*150mm*3um)
Dissolution method	100%H ₂ O
Acquisition Time	2026/02/07 04:13:33
Inj. Volume	12ul

Time	Module	Action	Value
0.01	Pumps	B.Conc	23
25.00	Pumps	B.Conc	38
30.00	Pumps	B.Conc	90
40.00	Pumps	B.Conc	90
41.00	Pumps	B.Conc	23
55.00	Controller	Stop	



1 PeakTable

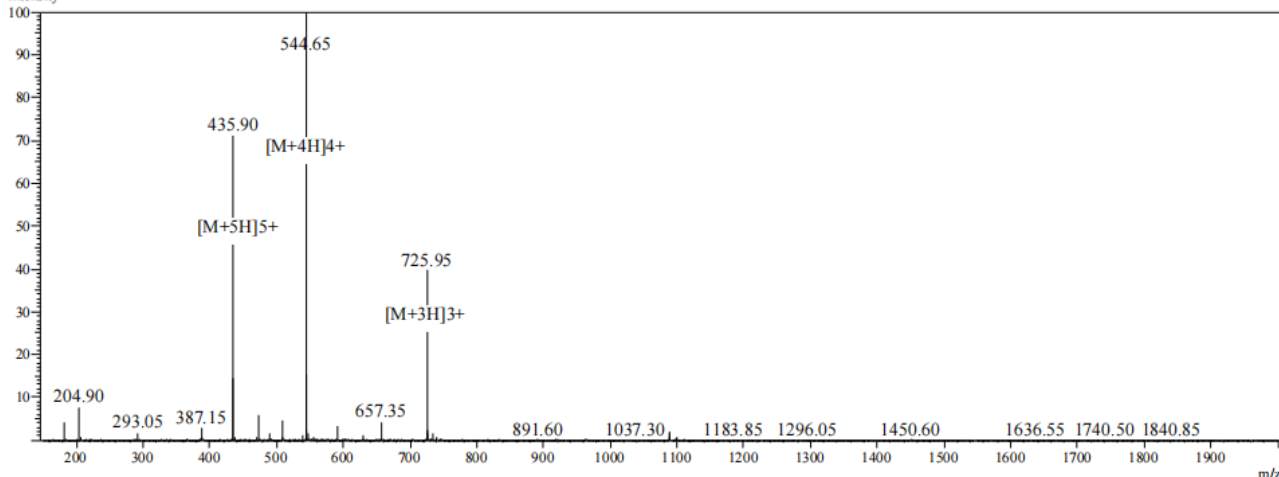
Detector A 220nm

Peak#	Ret. Time	Area	Height	Area %
1	7.897	11578	1093	0.042
2	10.992	9564	859	0.034
3	11.358	8218	495	0.030
4	11.714	26811	1901	0.097
5	12.533	10815	896	0.039
6	13.219	23568	1816	0.085
7	13.739	27600331	1354053	99.362
8	14.597	13597	905	0.049
9	15.438	4370	641	0.016
10	15.714	10314	1286	0.037
11	15.992	17434	1546	0.063
12	16.242	1964	267	0.007
13	16.995	9305	728	0.033
14	17.295	10204	928	0.037
15	18.462	19526	1709	0.070
Total		27777600	1369123	100.000

Positive Intensity

AI识别

MS Spectrum



Sample Information
Dissolution method
Date Acquired
Injection Volume

:3%HAC+25%ACN+72%H2O
: 2026/2/9 15:49:53
: 1ul

Interface
Nebulizing Gas Flow
CDL Temp
CDL Volt
Block Temp

:ESI
:1.50L/min
:250C
:0v
:200

Prerod Bias
Detector
T.Flow
B.conc

:+4.5kv
:-0.2kv
:0.2ml/min
:30%H2O/70%MeOH

m/z

Lot No.	VI2120260204-10
Theoretical	2174.63
Observed	2174.60