Certificate of Analysis

Product Name: MOTS- c (Specification 10mg)

CAS No.: 1627580-34-4 **Lot No.**: MS10-20260705H

Molecular Formula:$C_{69}H_{119}N_{23}O_{21}S$ **Manufacturing Date**: 2026.07.05

Molecular Weight: 1656.89 **Retest Date** : 2027.07.05

Peptide Sequence: H-Met-Val-Arg-Phe-Lys-Gly-Phe-Cys-Arg-Pro-Leu-Met-Trp

Store at:

Lyophilized bulk powder: Store at ≤ -20°C, protected from light & moisture

Reconstituted solution: Store at 2–8°C, use within 7 days

TEST	SPECIFICATION	RESULT
Appearance	White to off-white lyophilized powder	Conform
MS (ESI)	Match theoretical molecular ion	Consistent with target mass
Purity (RP-HPLC)	≥98.0%	99.33%
Total Related Substances (RP-HPLC)	≤ 2.0%	0.67%
Water Content (Karl Fischer)	≤ 8.0%	3.5%
Acetic Acid Content (IC/HPLC)	≤ 10.0%	5.9%
Organic Solvents Residue (GC)Acetonitrile / DCM / DMF / Ethanol	Total ≤ 1.0%	<0.1%
Cadmium (Cd)	≤0.1 ppm	N.D.
Lead (Pb)	≤0.5 ppm	N.D.
Mercury (Hg)	≤0.1 ppm	N.D.
Arsenic (As)	≤0.3 ppm	N.D.
Endotoxin (LAL Method, injectiongrade mandatory)	≤ 5 EU/mg protein	<0.51EU/mg
Total Aerobic Microbial Count	≤ 100 CFU/g	<10 CFU/g
Yeast & Mould Count	≤ 10 CFU/g	<10 CFU/g

Anhui Rentong Import and Export Co.,LTD

Pathogens (E.coli / Salmonella / S.aureus)	Absent in 1g sample	Negative

Conclusion: The product conforms with enterprise standard and qualified.

QC Director: Bingqing Wang

1.The material is non-explosive, non-corrosive, non-radioactive, non-flammable, non-toxic and harmful, and is not a raw material for the manufacture of chemical weapons.

2.This product is a sample of chemical synthesis (not of a biological origin i.e. not of animal, human or plant origin)

3.The above material is to be used exclusively for in vitro laboratory research purposes only.

Anhui Rentong Import and Export Co.,LTD

Certificate of Analysis

Product Name: MOTS- c (Specification 40mg)

CAS No.: 1627580-34-4 **Lot No.**: MS40-20260629X

Molecular Formula:$C_{69}H_{119}N_{23}O_{21}S$ **Manufacturing Date**: 2026.06.29

Molecular Weight: 1656.89 **Retest Date** : 2027.06.29

Peptide Sequence: H-Met-Val-Arg-Phe-Lys-Gly-Phe-Cys-Arg-Pro-Leu-Met-Trp

Store at:

Lyophilized bulk powder: Store at ≤ -20°C, protected from light & moisture

Reconstituted solution: Store at 2–8°C, use within 7 days

TEST	SPECIFICATION	RESULT
Appearance	White to off-white lyophilized powder	Conform
MS (ESI)	Match theoretical molecular ion	Consistent with target mass
Purity (RP-HPLC)	≥98.0%	99.35%
Total Related Substances (RP-HPLC)	≤ 2.0%	0.65%
Water Content (Karl Fischer)	≤ 8.0%	3.9%
Acetic Acid Content (IC/HPLC)	≤ 10.0%	6.3%
Organic Solvents Residue (GC)Acetonitrile / DCM / DMF / Ethanol	Total ≤ 1.0%	<0.1%
Cadmium (Cd)	≤0.1 ppm	N.D.
Lead (Pb)	≤0.5 ppm	N.D.
Mercury (Hg)	≤0.1 ppm	N.D.
Arsenic (As)	≤0.3 ppm	N.D.
Endotoxin (LAL Method, injectiongrade mandatory)	≤ 5 EU/mg protein	<0.49EU/mg
Total Aerobic Microbial Count	≤ 100 CFU/g	<10 CFU/g
Yeast & Mould Count	≤ 10 CFU/g	<10 CFU/g

Anhui Rentong Import and Export Co.,LTD

Pathogens (E.coli / Salmonella / S.aureus)	Absent in 1g sample	Negative

Conclusion: The product conforms with enterprise standard and qualified.

QC Director: Hao Chen

1.The material is non-explosive, non-corrosive, non-radioactive, non-flammable, non-toxic and harmful, and is not a raw material for the manufacture of chemical weapons.

2.This product is a sample of chemical synthesis (not of a biological origin i.e. not of animal, human or plant origin)

3.The above material is to be used exclusively for in vitro laboratory research purposes only.

Anhui Rentong Import and Export Co.,LTD