



SAMPLE INFORMATION

Sample Name:
MOTS-C 40mg

Lot Number:
SD-260730-1

Sample Matrix:
Lyophilized Peptide

Received Date:
August 3, 2026

Sample ID:
0833.OPT.260816

Client:
PureX Bio

Intended Use:
Research Use Only

Report Date:
August 16, 2026



IDENTITY
MOTS-C
LC-MS



POTENCY
37.71 mg
HPLC



PURITY
99.03%
RP-HPLC



ENDOTOXIN
PASS
LAL



**RESIDUAL
SOLVENTS**
PASS
GC-MS



**HEAVY
METALS**
PASS
ICP-OES

RESULTS SUMMARY

TEST PANEL	METHOD	SPECIFICATION	RESULT	STATUS
 Identity Verification	LC-MS	-	MOTS-c	TESTED
 Potency (Assay)	HPLC	-	37.71 mg	TESTED
 Purity	RP-HPLC	≥ 98.0%	99.03%	TESTED
 pH	Probe	5.0 – 8.0	5.8	PASS
 Water Activity	Probe	-	0.33 aw	PASS
 Endotoxin	LAL	≤ 0.05 EU/mg	Pass	PASS
 Total Yeast & Mold	USP <61>/<62>	Within Limits	Pass	PASS
 Residual Solvents	GC-MS	-	Pass	PASS
 Heavy Metals	ICP-OES	Within Limits	Pass	PASS



Residual Solvents

Instrument: GC-MS Analysis Date: August 16, 2026

PASS

Analyte	LOD (µg/g)	LOQ (µg/g)	Action Limit (µg/g)	Result (µg/g)	Status
Propane	15.4688	46.875	5000	0	PASS
Butane	15.4688	46.875	5000	0	PASS
Methanol	15.4688	46.875	3000	0	PASS
Ethylene Oxide	0.1547	0.4688	1	0	PASS
Pentane	15.4688	46.875	5000	0	PASS
Ethanol	15.4688	46.875	5000	0	PASS
Ethyl Ether	15.4688	46.875	5000	0	PASS
Acetone	15.4688	46.875	5000	0	PASS
Isopropyl Alcohol	15.4688	46.875	5000	0	PASS
Acetonitrile	15.4688	46.875	410	0	PASS
Methylene Chloride	0.1547	0.4688	1	0	PASS
n-Hexane	15.4688	46.875	290	0	PASS
Ethyl Acetate	15.4688	46.875	5000	0	PASS
Chloroform	0.1547	0.4688	1	0	PASS
Benzene	0.1547	0.4688	1	0	PASS
1,2-Dichloroethane	0.1547	0.4688	1	0	PASS
Heptane	15.4688	46.875	5000	0	PASS
Trichloroethylene	0.1547	0.4688	1	0	PASS
Toluene	15.4688	46.875	890	0	PASS
Total Xylenes (m, p)	23.2032	70.3125	-	0	PASS
Total Xylenes (o)	23.2032	70.3125	-	0	PASS
Total Xylenes	-	-	2170	ND	PASS

Heavy Metals

Instrument: ICP-OES Analysis Date: August 16, 2026

PASS

Analyte	LOD (µg/g)	LOQ (µg/g)	Action Limit (µg/g)	Result (µg/g)	Status
Arsenic	0.015	0.05	0.2	ND	PASS
Cadmium	0.0113	0.05	0.2	ND	PASS
Lead	0.00615	0.05	0.5	ND	PASS
Mercury	0.00126	0.005	0.1	ND	PASS