



Scan to Verify
COA Authenticity



SAMPLE INFORMATION

Sample Name:
MOTS-C 40mg

Lot Number:
SD-260730-1

Sample Matrix:
Lyophilized Peptide

Received Date:
August 3, 2026

Sample ID:
0562.OPT.260803

Client:
Vector E Lab LLC

Intended Use:
Research Use Only

Report Date:
August 10, 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 10, 2026

PASS

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

Heavy Metals

Instrument: ICP-OES Analysis Date: August 10, 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