CERTIFICATE OF ANALYSIS

REPORT NUMBER MY-SX10
VERIFICATION CODE DSX10A
Verify at UnitedLaboratories.Org

Client: MYTIDE LABORATORIES LLC

Sample information

PRODUCT	Semax	**ACTIVE IDENTITY**	Semax
BATCH / LOT NUMBER	A1015	**LABORATORY SAMPLE ID**	MY-SEMAX-10
LABELED QUANTITY	10 mg	**FORM**	Lyophilized powder
CAS NUMBER	80714-61-0	**MOLECULAR FORMULA**	C37H51N9O10S
CAP COLOR	Black	**CRIMP COLOR**	Silver
DATE RECEIVED	07/06/2026	**DATE ISSUED**	07/24/2026

Test results

Test	Reference standard	Result	Status
Batch Avg Purity	> 98 %	99.50%	PASS
Batch Avg Net Content	~ 10 mg	10.93mg	PASS
Identity Confirmation (LC-MS)	Matches label	Semax	PASS
Endotoxin Safety Screen	≤ 0.5 EU/mL	< 0.20 EU/mL	PASS
Microbial Sterility Screen	No Growth	No Growth	PASS

Heavy metal screening

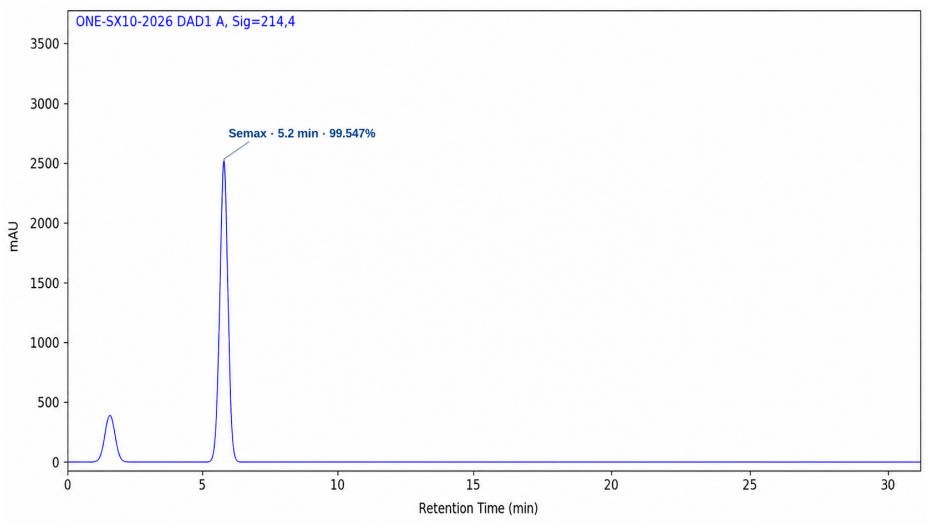
Analyte	Result	Status
Arsenic (As)	Negative	PASS
Cadmium (Cd)	Negative	PASS
Lead (Pb)	Negative	PASS
Mercury (Hg)	Negative	PASS

Conformity Results

Vial	Purity (%)	Net content
Vial 1	99.547	10.92 mg
Vial 2	99.546	10.96 mg
Vial 3	99.407	10.91 mg
Published mean	99.50%	10.93mg

Chromatogram

RP-HPLC | C18 | DAD @ 214 nm



Sample vial



Lab Director: Bhavrat Singh Report number: MY-SX10 Verification code: DSX10A

AUTHORISED BY BHAVRAT SINGH, LAB DIRECTOR | DATE ISSUED 07/24/2026

RAPID STERILITY SCREEN

REPORT NUMBER MY-SX10
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Client and sample information

CLIENT	MYTIDE LABORATORIES LLC	**SAMPLE NAME**	Semax
BATCH / LOT NUMBER	A1015	**LABORATORY SAMPLE ID**	MY-SEMAX-10
DATE ISSUED	07/24/2026	**SAMPLE MATRIX**	Lyophilized powder

Test methodology

Rapid Sterility Screening Method. The sample was reconstituted and incubated in growth media under controlled conditions; cultures were monitored for microbial growth. This is a preliminary quality-control screen, and full compendial sterility testing may be required for regulatory compliance.

Test results

Test parameter	Specification	Result	Status
Bacteria (Aerobic/Anaerobic)	No Growth	No microbial growth detected	PASS
Fungi / Yeast	Not Detected	Not Detected	PASS

Test conditions

TEST METHOD	Rapid Sterility	**INCUBATION PERIOD**	2 days
TEMPERATURE	30-35 deg C	**SAMPLE MATRIX**	Lyophilized powder

SAMPLE PASSES STERILITY SCREEN - NO MICROBIAL GROWTH DETECTED

Review record

DATE ISSUED	07/24/2026	**REPORT NUMBER**	MY-SX10
VERIFICATION CODE	DSX10A	**REVIEW STATUS**	Authorised by Lab Director
LAB DIRECTOR	Bhavrat Singh	**LABORATORY SAMPLE ID**	MY-SEMAX-10

HEAVY METALS ANALYSIS

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ICP-MS, EPA-referenced methods

Client and sample information

CLIENT	MYTIDE LABORATORIES LLC	**DATE ISSUED**	07/24/2026
PRODUCT NAME	Semax	**STRENGTH**	10 mg
BATCH / LOT	A1015	**LABORATORY SAMPLE ID**	MY-SEMAX-10
VERIFICATION CODE	DSX10A	**CONDITION**	Lyophilized powder

Test methodology

TEST PERFORMED	Elemental Impurities Analysis	**INSTRUMENT**	ICP-MS
SAMPLE PREP	HNO3 / H2O2 matrix	**CALIBRATION**	Multi-element standard curve
INTERNAL STANDARD	Sc, Ge, In, Bi	**MATERIAL TYPE**	Raw Material (Research Use)

Elemental impurities results

Element	Result (ppm)	Acceptance limit (ppm)	Status
Lead (Pb)	< 0.5	≤ 10	PASS
Arsenic (As)	< 0.15	≤ 1.5	PASS
Cadmium (Cd)	< 0.05	≤ 0.5	PASS
Mercury (Hg)	< 0.3	≤ 3	PASS

Method suitability - spike recovery

Element	Spike level	Recovery	Criteria
Lead (Pb)	5 ppm	102%	70-150%
Arsenic (As)	0.75 ppm	106%	70-150%
Cadmium (Cd)	0.25 ppm	98%	70-150%
Mercury (Hg)	1.5 ppm	94%	70-150%

Quality control and interpretation

Quality Control: Method Blank: Pass | CCV: Pass | Duplicate RPD: < 20%

Lead, arsenic, cadmium and mercury are below their stated acceptance limits. The method blank and continuing calibration verification passed, duplicate RPD is below 20%, and spike recoveries are within criteria. The sample meets the stated elemental-impurity acceptance criteria. Authorised laboratory review is complete.

Lab Director: Bhavrat Singh Report number: MY-SX10

BACTERIAL ENDOTOXIN ANALYSIS

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Kinetic LAL, USP <85>

Client and sample information

CLIENT	MYTIDE LABORATORIES LLC	**DATE ISSUED**	07/24/2026
PRODUCT NAME	Semax	**STRENGTH**	10 mg
BATCH / LOT	A1015	**LABORATORY SAMPLE ID**	MY-SEMAX-10
VERIFICATION CODE	DSX10A	**CONDITION**	Lyophilized powder

Test methodology

TEST PERFORMED	Quantitative Bacterial Endotoxin Test	**COMPENDIAL REFERENCE**	USP <85>
ASSAY TYPE	Kinetic Chromogenic LAL	**DETECTION WAVELENGTH**	405 nm
DETECTION RANGE	0.01-1.0 EU/mL	**ENDOTOXIN STANDARD**	E. coli O111:B4
DILUTION VOLUME	2.0 mL	**MATRIX**	LAL Reagent Water

Quantitative results

Parameter	Result
Endotoxin Level	< 0.20 EU/mL
Acceptance Limit	≤ 0.5 EU/mL
Sample CV (%)	3.2%
Spike CV (%)	4.1%
Spike Recovery (%)	97%
Final Determination	PASS

Controls

Control	Expected	Observed	Status
Positive Control	Detectable	As expected	PASS
Negative Control	No signal	As expected	PASS

FINAL DETERMINATION: PASS

Interpretation and review

The endotoxin result is below the 0.5 EU/mL acceptance limit. Positive and negative controls performed as expected. The sample meets the stated bacterial-endotoxin criterion. Authorised laboratory review is complete.

Laboratory authorisation

Lab Director: Bhavrat Singh

Authorised signature: Bhavrat Singh

Date issued: 07/24/2026