

CERTIFICATE OF ANALYSIS

Product Information

Product Name: Semax

CAS Number: 80714-61-0

Molecular Formula: C₃₉H₅₄N₁₀O₁₀S

Molecular Weight: 854.97 Da

Appearance: White powder

Storage Conditions: -20°C, dry, dark

Batch Information

Batch Number: PB-2026-SMX-0312

Manufacturing Date: Mar 28, 2026

Expiration Date: 24 months from manufacture

Quantity Tested: 10 mg

Lot Size: 10 vials

Analytical Results Table

Test	Method	Specification	Result	Pass/Fail
1. Purity (HPLC)	RP-HPLC	≥99.0%	99.3%	✓
2. Identity (ESI-MS / MALDI-TOF)	ESI-MS / AAA	Conforms to sequence	Conforms	✓
3. Amino Acid Analysis		Conforms to sequence	Conforms	✓
4. Endotoxin Level (LAL)		< 1.0 EU/mg	0.26 EU/mg	✓
5. Bioburden		Meets Ph. Eur. requirements	Not detected	✓
6. Heavy Metals		ICH Q3D limits	Meets ICH Q3D Class 2	✓
7. Residual Solvents		ICH Q3C Class 2	< ICH Q3C limits	✓
8. Water Content		≤ 8.0%	4.5%	✓
9. Optical Rotation		-34° to -42°	-38.7°	✓
10. Counter Ion Content		Within expected range	Trifluoroacetate (TFA)	✓

Certificate Of Analysis — Representative Document

This Certificate of Analysis is a Choice Labs representation of test data originally generated by our GMP-certified manufacturing partner. The replicate data presented herein has been extracted from third-party laboratory documentation provided to Choice Labs and reformatted into our standardized Choice-branded COA format. Original third-party laboratory documents are held on file internally and are available upon legitimate request for verification purposes.

Choice Labs is committed to quality transparency. In Phase 2 of our quality assurance program (initiating Q3 2026, approximately 90 days post-launch), Choice will transition to independently commissioned, third-party laboratory analyses with all Certificates of Analysis issued directly in Choice Labs' name.

Choice Labs, Choice

Quality Assurance Manager

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