

CERTIFICATE OF ANALYSIS

Report HLM-SLK-2026-001

Issued April 18, 2026 · v1

SAMPLE

This is a **template Certificate of Analysis** representing the format and specification targets for Selank Nasal Spray. A batch-specific, third-party verified COA will replace this document once the first production batch is received and tested by Janoshik Analytical.

01 — SAMPLE INFORMATION & COMPOUND IDENTITY

Product	Selank Nasal Spray	Compound	Selank
Batch Number	HLM-SLK-2026-001	Sequence	Thr-Lys-Pro-Arg-Pro-Gly-Pro
Manufacturer	Helm Research, LLC	Molecular Formula	C33H57N11O9
Form	Nasal Spray (metered)	Molecular Weight	751.89 g/mol
Fill Volume	10 mL	CAS Number	129954-34-3
Total Peptide	20 mg	Storage	2–8 °C, protect from light
Concentration	2.0 mg / mL (0.2%)	Shelf Life	18 months unopened

02 — ANALYTICAL RESULTS

PARAMETER	METHOD	RESULT	SPECIFICATION	STATUS
Purity (% peak area)	HPLC-UV 220 nm	99.4 %	≥ 98.0 %	● Pass
Identity	LC-MS/MS, ESI+	752.86 m/z [M+H] ⁺	Confirmed to theoretical	● Pass
Assay (label claim)	HPLC-UV quantitation	99.8 %	95.0 – 105.0 %	● Pass
Appearance	Visual	Clear, colorless	Clear, colorless	● Pass
pH	Potentiometric	5.6	4.0 – 6.5	● Pass
Bacterial Endotoxins	LAL (kinetic)	< 0.5 EU / mL	≤ 5.0 EU / mL	● Pass
Microbial Contamination	USP <61>	< 10 CFU / mL	≤ 100 CFU / mL	● Pass

03 — TESTING METHODOLOGY

HPLC PURITY & ASSAY

Column: C18 reverse-phase, 4.6 × 150 mm, 5 μm
Mobile Phase A: 0.1% TFA in water
Mobile Phase B: 0.1% TFA in acetonitrile
Gradient: 5 → 60 % B over 20 min
Flow Rate: 1.0 mL/min
Detection: UV 220 nm
Injection Volume: 10 μL
Reference Standard: In-house qualified vs. USP

LC-MS/MS IDENTITY

Ionization: Electrospray, positive mode
Scan Range: 200 – 1200 m/z
Collision Energy: 35 eV
Theoretical [M+H]⁺: 752.89
Observed [M+H]⁺: 752.86
Mass Accuracy: ≤ 5 ppm
Testing Laboratory: Janoshik Analytical
Accreditation: ISO/IEC 17025 (planned)

The above specification conforms to Helm's internal quality standard for research-grade Selank. The represented batch, once produced, will be released for research use only upon successful verification against every parameter listed in Section 02.

QUALITY AUTHORIZATION

Pending – assigned on batch release

RELEASE DATE

Pending

COA VERSION

Template v1 – April 18, 2026