



Vita Science Peptides Inc.

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Certificate of Analysis

CERTIFICAT D'ANALYSE

Document 68687C4BA9 · Lot SX-2609-47 · Issued / Émis September
22, 2026

Semax Heptapeptide, 10 mg Lyophilized Vial

Lyophilized powder in a sealed 3 mL glass vial · 10 mg per vial



Verify this lot / Vérifier ce lot
canada-peptides.net/lots/#sx-2609-47

Catalogue no. / N° de catalogue	PEP-SEMAX-10	Lot / Lot	SX-2609-47
Date of analysis / Date d'analyse	September 22, 2026	Retest date / Date de réanalyse	September 22, 2028
CAS	80714-61-0	Molecular formula / Formule	C37H51N9O10S
Molecular weight / Masse moléculaire	813.9 g/mol	Quantity / Quantité	10 mg per vial
Form / Forme	Lyophilized powder in a sealed 3 mL glass vial	Storage / Conservation	Lyophilized powder: store sealed at -20 °C, protected from light and moisture. Ships at ambient temperature with desiccant.

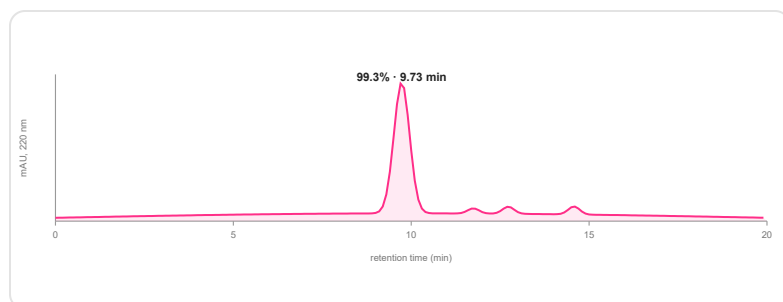
SEQUENCE / SÉQUENCE

MEHFPGP

RESULTS / RÉSULTATS

TEST / ESSAI	METHOD / MÉTHODE	SPECIFICATION / SPÉCIFICATION	RESULT / RÉSULTAT
Appearance / Apparence	Visual, USP <631>	White to off-white lyophilized powder	White lyophilized powder
Purity / Pureté	RP-HPLC, C18, 220 nm, area %	≥99%	99.3%
Identity / Identité	ESI-MS, positive mode	[M+H] ⁺ 814.91 ± 0.1%	[M+H] ⁺ 815.05 (Δ 0.018%)
Net peptide content / Teneur nette	Gravimetric, corrected for water and counter-ion	10 mg per vial	9.96 mg (101.3% of label)
Water content / Teneur en eau	Karl Fischer titration	≤ 8.0%	2.7%
Counter-ion / Contre-ion	Ion chromatography	Acetate, TFA below 1%	6.4% acetate
Bacterial endotoxin / Endotoxine	LAL, kinetic turbidimetric	< 1.0 EU/mg	< 0.32 EU/mg

CHROMATOGRAM / CHROMATOGRAMME



PEAK	RT (MIN)	AREA %	ASSIGNMENT / ATTRIBUTION
1	9.73	99.30	Semax Heptapeptide (main peak)

MASS SPECTRUM / SPECTRE DE MASSE



METHODS / MÉTHODES

PEAK	RT (MIN)	AREA %	ASSIGNMENT / ATTRIBUTION
2	11.75	0.18	Related impurity
3	12.73	0.24	Related impurity
4	14.58	0.28	Related impurity

RP-HPLC. Reversed-phase HPLC on a C18 column with a water/acetonitrile gradient (0.1% TFA), detection at 220 nm; purity is the main peak area as a percentage of the total peak area.

ESI-MS. Electrospray ionization mass spectrometry in positive mode; identity is confirmed when the observed [M+H]⁺ (or [M+2H]²⁺) ion lies within 0.1% of the calculated mass.

Karl Fischer. Coulometric titration of a weighed aliquot for water content, reported as a percentage of the lyophilized mass.

Ion chromatography. Counter-ion content (acetate, residual trifluoroacetate) by anion-exchange chromatography with conductivity detection.

LAL. Kinetic turbidimetric Limulus amoebocyte lysate assay for bacterial endotoxin, reported per milligram of peptide.

Analyst / Analyste

QC laboratory · signed electronically
September 22, 2026

Reviewed / Vérifié

QC reviewer · signed electronically
September 22, 2026

Released / Libéré

Quality assurance · released for sale
Document 68687C4BA9

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This certificate reports the lot record held by Vita Science Peptides for lot SX-2609-47; results apply to that lot only. Document 68687C4BA9 can be checked against the lot register at <https://canada-peptides.net/lots/#sx-2609-47>. Store as stated above; retest date September 22, 2028. Generated 2026-09-24 · <https://canada-peptides.net>