



Vita Science Peptides Inc.

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Certificate of Analysis

CERTIFICAT D'ANALYSE

Document F8FFF41342 · Lot PT-2609-50 · Issued / Émis September 23, 2026

PT-141 Cyclic Heptapeptide, 10 mg Lyophilized Vial

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



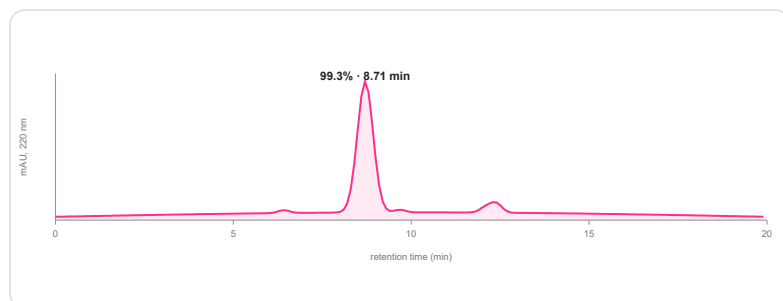
Verify this lot / Vérifier ce lot
canada-peptides.net/lots/#pt-2609-50

Catalogue no. / N° de catalogue	PEP-PT141-10	Lot / Lot	PT-2609-50
Date of analysis / Date d'analyse	September 23, 2026	Retest date / Date de réanalyse	September 23, 2028
CAS	189691-06-3	Molecular formula / Formule	C50H68N14O10
Molecular weight / Masse moléculaire	1025.2 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.

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] ⁺ 1026.21 ± 0.1%	[M+H] ⁺ 1026.15 (Δ 0.006%)
Net peptide content / Teneur nette	Gravimetric, corrected for water and counter-ion	10 mg per vial	10.18 mg (100.9% of label)
Water content / Teneur en eau	Karl Fischer titration	≤ 8.0%	4.3%
Counter-ion / Contre-ion	Ion chromatography	Acetate, TFA below 1%	4.2% acetate
Bacterial endotoxin / Endotoxine	LAL, kinetic turbidimetric	< 1.0 EU/mg	< 0.27 EU/mg

CHROMATOGRAM / CHROMATOGRAMME



PEAK	RT (MIN)	AREA %	ASSIGNMENT / ATTRIBUTION
1	6.42	0.10	Related impurity
2	8.71	99.30	PT-141 Cyclic Heptapeptide (main peak)
3	9.68	0.09	Related impurity
4	12.10	0.19	Related impurity

MASS SPECTRUM / SPECTRE DE MASSE



METHODS / MÉTHODES

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.

PEAK	RT (MIN)	AREA %	ASSIGNMENT / ATTRIBUTION
5	12.39	0.32	Related impurity

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

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

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

Analyst / Analyste QC laboratory · signed electronically September 23, 2026	Reviewed / Vérifié QC reviewer · signed electronically September 23, 2026	Released / Libéré Quality assurance · released for sale Document F8FFF41342
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This certificate reports the lot record held by Vita Science Peptides for lot PT-2609-50; results apply to that lot only. Document F8FFF41342 can be checked against the lot register at <https://canada-peptides.net/lots/#pt-2609-50>. Store as stated above; retest date September 23, 2028. Generated 2026-09-24 · <https://canada-peptides.net>