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Certificate of Analysis

CERTIFICAT D'ANALYSE

Document BE0644FEAB · Lot SS-2609-51 · Issued / Émis September
23, 2026

SS-31 Aromatic-Cationic Tetrapeptide, 50 mg Lyophilized Vial

Lyophilized powder in a sealed 3 mL glass vial · 50 mg per vial



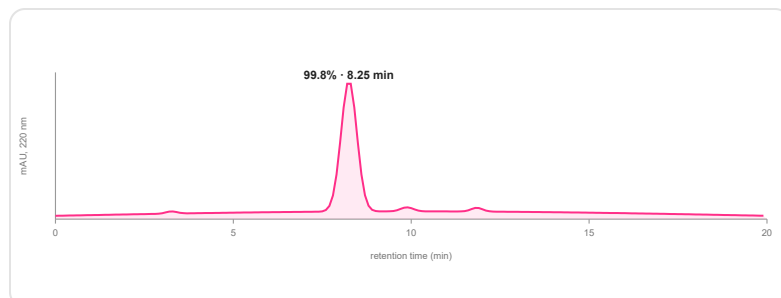
Verify this lot / Vérifier ce lot
canada-peptides.net/lots/#ss-2609-51

Catalogue no. / N° de catalogue	PEP-SS31-50	Lot / Lot	SS-2609-51
Date of analysis / Date d'analyse	September 23, 2026	Retest date / Date de réanalyse	September 23, 2028
CAS	736992-21-5	Molecular formula / Formule	C32H49N9O5
Molecular weight / Masse moléculaire	639.8 g/mol	Quantity / Quantité	50 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%	99.8%
Identity / Identité	ESI-MS, positive mode	[M+H] ⁺ 640.81 ± 0.1%	[M+H]⁺ 640.73 (Δ 0.011%)
Net peptide content / Teneur nette	Gravimetric, corrected for water and counter-ion	50 mg per vial	51.00 mg (100.7% of label)
Water content / Teneur en eau	Karl Fischer titration	≤ 8.0%	5.0%
Counter-ion / Contre-ion	Ion chromatography	Acetate, TFA below 1%	5.1% acetate
Bacterial endotoxin / Endotoxine	LAL, kinetic turbidimetric	< 1.0 EU/mg	< 0.13 EU/mg

CHROMATOGRAM / CHROMATOGRAMME



PEAK	RT (MIN)	AREA %	ASSIGNMENT / ATTRIBUTION
1	3.26	0.01	Related impurity
2	8.25	99.80	SS-31 Aromatic-Cationic Tetrapeptide (main peak)
3	9.81	0.04	Related impurity
4	9.95	0.02	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	11.85	0.13	Related impurity

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 amebocyte lysate assay for bacterial endotoxin, reported per milligram of peptide.

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 BE0644FEAB
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This certificate reports the lot record held by Vita Science Peptides for lot SS-2609-51; results apply to that lot only. Document BE0644FEAB can be checked against the lot register at <https://canada-peptides.net/lots/#ss-2609-51>. Store as stated above; retest date September 23, 2028. Generated 2026-09-24 · <https://canada-peptides.net>