

PREPARED FOR H&J Pharma	CLIENT WEBSITE vietnam-peptides.com	DISTRIBUTION Client confidential
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1 SAMPLE & ACCESSION

ANALYTE / IDENTITY SLU-PP-332	CAS NUMBER 303760-60-3	MOLECULAR FORMULA C18H14N2O2	MOLECULAR MASS (DA) 290.32
SUBSTANCE CLASS Small molecule (not a peptide)	REFERENCE-DATA CONFIDENCE High	LOT NUMBER SLU-2026-0731-3229	LABELED CONTENT 5 mg
ACCESSION NO. ACC-2026-0816-SLU-7326	SAMPLE MATRIX Lyophilized	APPEARANCE Conforms	STORAGE -20 °C, protected from light
MANUFACTURED 07/31/2026	RETEST / EXPIRY 07/31/2028	DATE RECEIVED 08/11/2026	DATE ANALYZED 08/15/2026
RECONSTITUTION VOLUME 1.0 mL	DISPOSITION RELEASED		

	PURITY 99.26% PASS	IDENTITY Confirmed PASS	NET COMPOUND 5.03 mg REPORTED	MOISTURE 2.66% PASS
	STERILITY No Growth PASS	ENDOTOXIN 0.032 PASS	HEAVY METALS ND PASS	

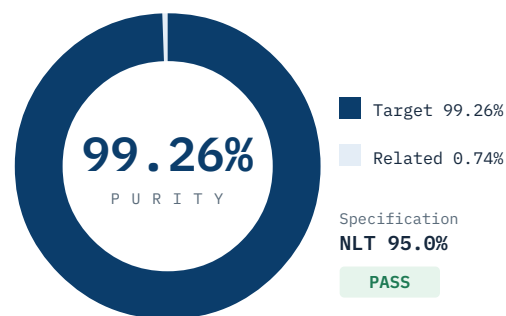
2 PURITY, QUANTITATION & IDENTITY

HPLC · HPLC-RTM · LC-MS

PARAMETER	METHOD	SPECIFICATION	RESULT	UNIT	STATUS
Assay purity (HPLC)	RP-HPLC-UV 214 nm	NLT 95.0%	99.26	%	PASS
Net compound content	HPLC / AAA	Report only	5.03	mg	REPORTED
Identity (HPLC-RTM)	Retention-time match	Co-elution	Confirmed	—	PASS
Fentanyl screen	Immunoassay 50 ng/mL	Not Detected	Not Detected	—	PASS

Chromatographic purity of 99.26% is measured against a not-less-than 95.0% release criterion. Net compound content of 5.03 mg is reported against a nominal 5 mg label claim.

FIGURE 1 · PURITY



HPLC area normalization. Target 99.26%, related substances 0.74%.

3 REPRESENTATIVE CHROMATOGRAM

RP-HPLC-UV

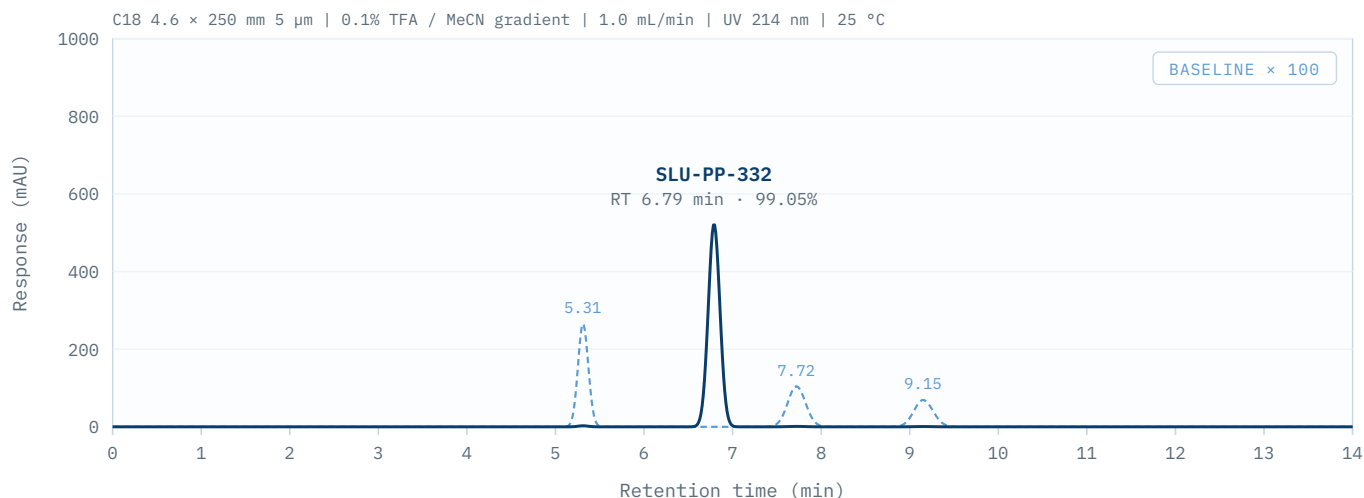


Figure 2. Trace reconstructed from the reported peak table — retention time, area, plate count and tailing factor define each peak envelope ($\sigma = t_R/\sqrt{N}$). Related substances shown magnified as the dashed trace, at the factor marked on the plot.

PEAK	RT (MIN)	AREA (µAU·S)	AREA %	PLATES (N)	TAILING
SLU-PP-332 (principal)	6.79	4,952,500	99.05	11,616	1.03
Related substance 1 (RRT 0.79)	5.31	21,863	0.44	9,414	1.08
Related substance 2 (RRT 1.16)	7.72	15,099	0.30	6,434	1.05
Related substance 3 (RRT 1.34)	9.15	10,500	0.21	8,206	1.09
Total	—	4,999,962	100.00	—	—

4 MASS CONFIRMATION

LC-MS, ESI positive

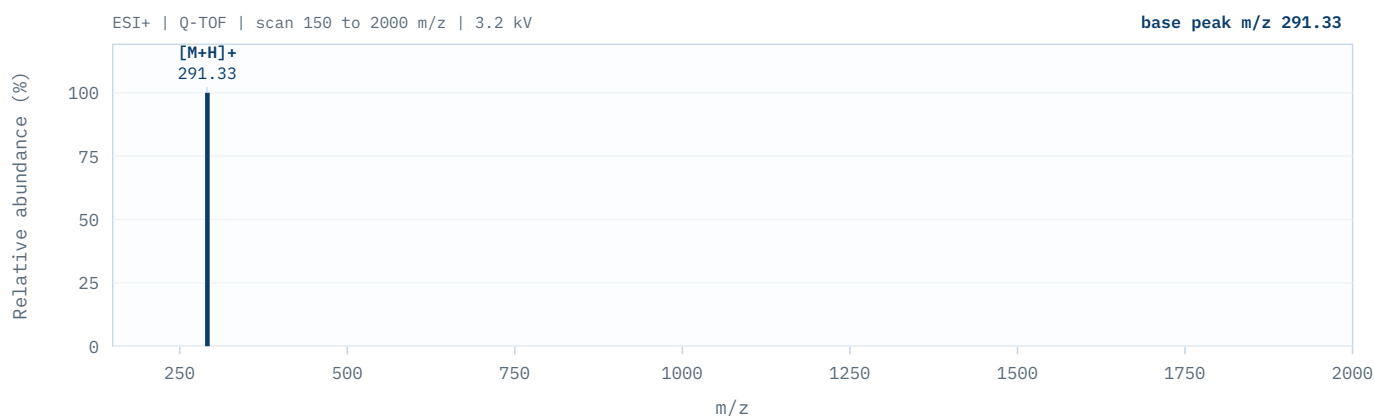


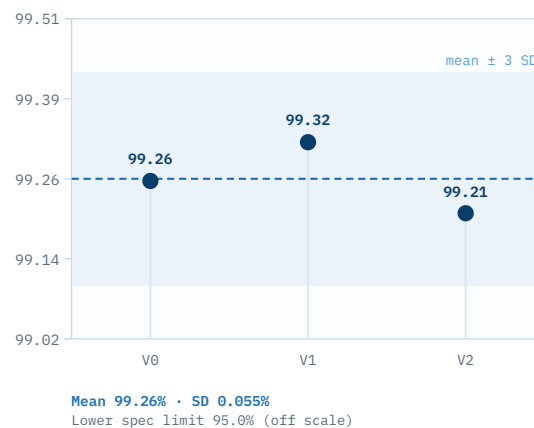
Figure 3. Theoretical ESI(+) charge-state ladder computed from 290.32 Da. Replace with the acquired spectrum before issue.

5 BATCH CONFORMITY

three independently sampled units

UNIT	PURITY (%)	NET CONTENT (MG)	IDENTITY	STATUS
V0 (dedicated)	99.26	5.03	Confirmed	PASS
V1	99.32	5.02	Confirmed	PASS
V2	99.21	5.03	Confirmed	PASS

FIGURE 4 · CONFORMITY



6 COMPOSITION, MOISTURE & COUNTERION

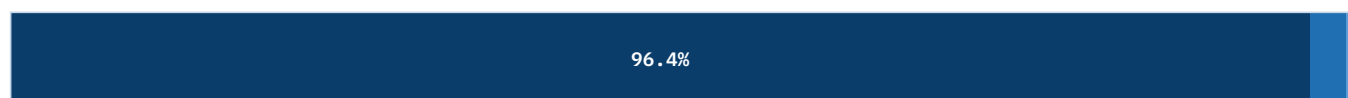
KF · IC · USP <467>

PARAMETER	METHOD	SPECIFICATION	RESULT	UNIT	STATUS
Net compound content	HPLC / AAA	Report only	5.03	mg	REPORTED
Water (Karl Fischer)	USP <921>	NMT 8.0% w/w	2.66	% w/w	PASS
Counterion	—	Not applicable	N/A	—	REPORTED
Residual solvents (TFA)	USP <467> headspace GC	Not Detected	ND	—	PASS
Gross fill weight	Gravimetric	Report only	5.22	mg	REPORTED

7 MASS BALANCE PER VIAL

components must sum to the gross fill

Gross fill 5.22 mg

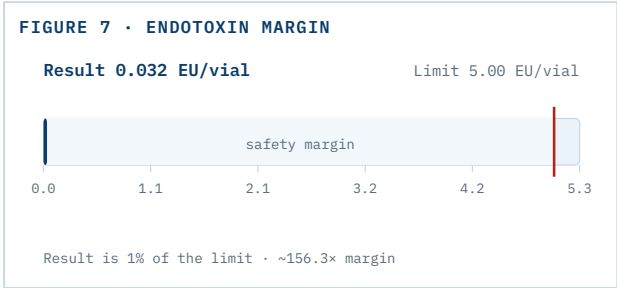
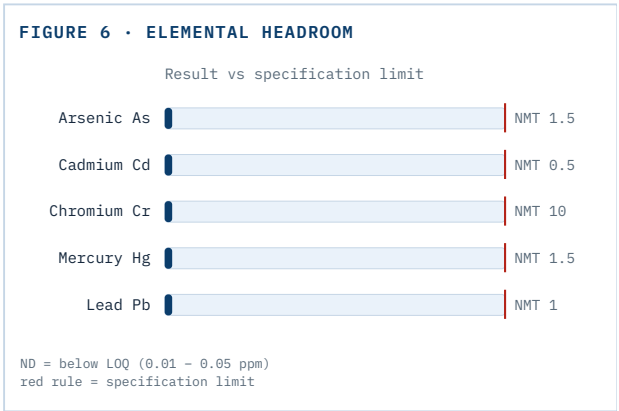


Active (SLU-PP-332)	5.03 mg · 96.4%	Water (Karl Fischer)	0.14 mg · 2.7%
Related substances	0.04 mg · 0.7%	Balance / matrix	0.01 mg · 0.2%

Figure 5. Mass balance of the lyophilized cake. Components sum to 5.22 mg against a gross fill of 5.22 mg.

8 SAFETY & CONTAMINATION CONTROLS ICP-MS · USP <71> <61> <85>

PARAMETER	SPECIFICATION	RESULT	STATUS
Arsenic (As)	NMT 1.5 ppm	Not Detected	PASS
Cadmium (Cd)	NMT 0.5 ppm	Not Detected	PASS
Chromium (Cr)	NMT 10 ppm	Not Detected	PASS
Mercury (Hg)	NMT 1.5 ppm	Not Detected	PASS
Lead (Pb)	NMT 1 ppm	Not Detected	PASS
Sterility	No Growth (USP <71>)	No Growth	PASS
Bioburden	< 10 CFU/mL (USP <61>)	< 1	PASS
Bacterial endotoxin	NMT 5.00 EU/vial (derived)	0.032	PASS



9 FOR THE RECIPIENT

[plain-language summary](#)

Purity (HPLC)	Percent of the main peak relative to all detected peaks.	Net compound content	Measured mass of active, separate from water and salt.
NMT / NLT	Not more than / not less than — an acceptance limit.	Not Detected	Below the method limit of quantitation (LOQ).
EU/vial	Endotoxin units per vial, derived from the declared reconstitution volume.	RRT	Relative retention time; an impurity position versus the main peak.
Counterion	The salt partner of the peptide.	Karl Fischer	Titration for residual water (USP <921>).

Storage. Store the sealed lyophilized vial at -20 °C, protected from light. Reconstituted solution is stable at 2-8 °C; use within 30 days. **Reconstitution.** Add bacteriostatic or sterile water down the vial wall, swirl gently, do not shake. **Handling.** Research use only; not for human or veterinary use.

11 AUTHORIZATION

Laboratory Director

Name: Alejandro Navarro
Date: 08/16/2026

Quality Assurance

Name: Oliver Bennett
Date: 08/18/2026



AUTHENTICATE THIS CERTIFICATE

Scan the code or verify at <https://labcentro.com/coa-verification/?cert=COA-2026-0816-SLU-7326&code=HLXBBFGF>
Verification ID: HLXBBFGF

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