



CERTIFICATE ID PV-DFCDBF-WBPP	ISSUE DATE 20/06/2026	BATCH/LOT PV-EEDDAF-WVKE	CUSTOMER Pepti Nova
SAMPLE DESCRIPTION Retatrutide	EXPECTED MW 4731.4 Da	ANALYSIS DATE 15/06/2026 12:44	INSTRUMENT LCMS Line 1

VERIFICATION SUMMARY

Purity (HPLC)

98.7%

Area% × PPI

Mass Spectrometry

N/A

ANALYTICAL RESULTS

VERIFIED PURITY

98.7%

HPLC Analysis - 2 Peaks

PEAK PURITY (PPI)

98.7%

Spectral homogeneity of main peak

MAIN PEAK AREA

98.7%

Main peak vs total integrated area

MAIN PEAK

#1 @ 9.931 min

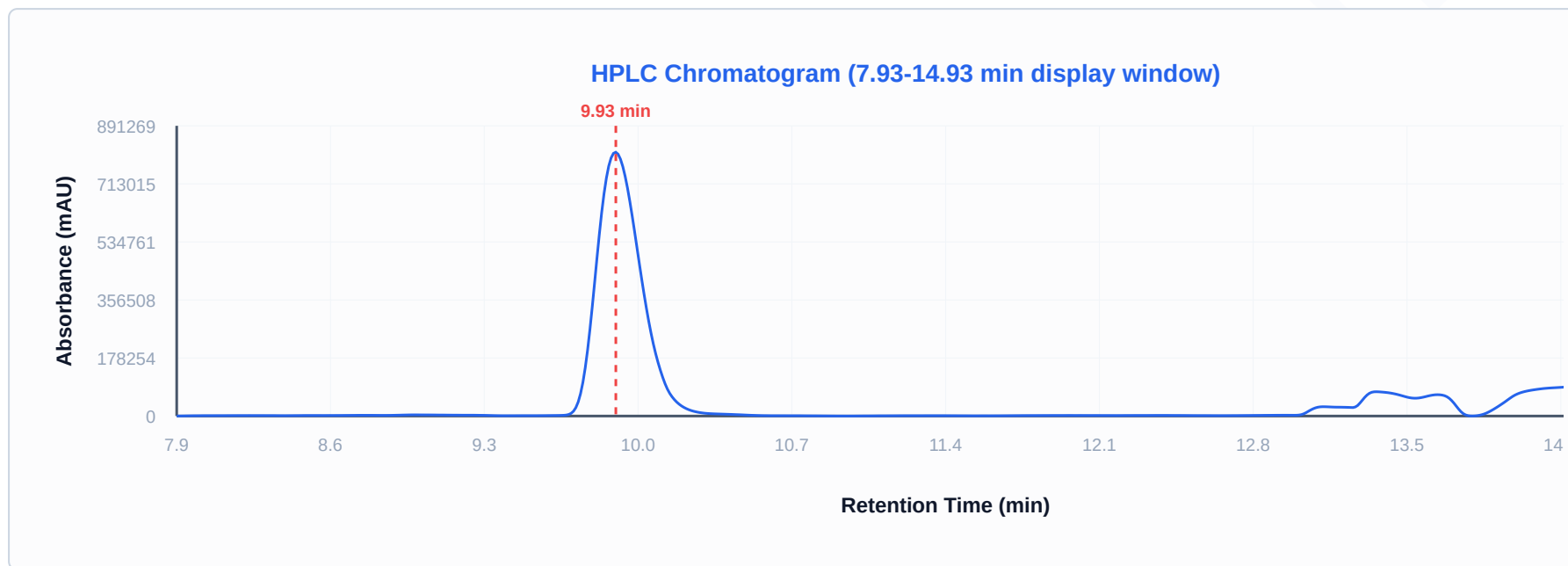
TOTAL PEAKS

2

DETECTION

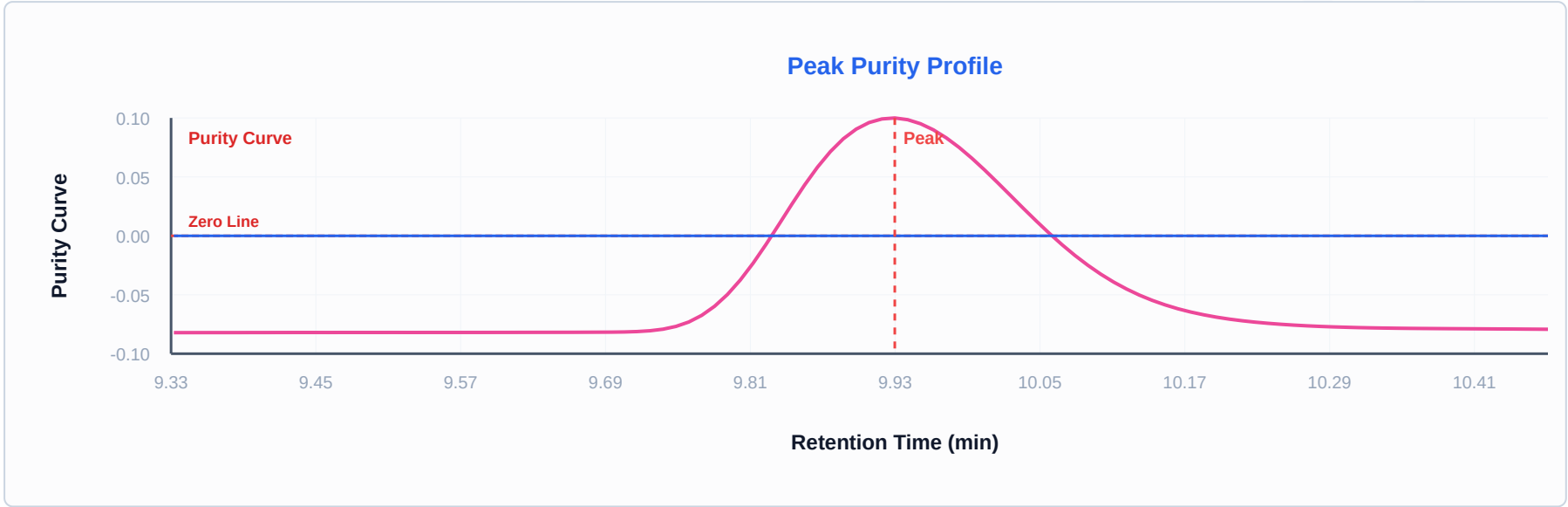
215 nm (± 4)

HPLC CHROMATOGRAM



Detection: 215 nm (± 4 nm)

PEAK PURITY PROFILE



PEAK INTEGRATION DATA

PEAK #	RETENTION (MIN)	AREA	HEIGHT	AREA %	WIDTH (MIN)	RESOLUTION (RS)	TAILING	PLATES (N)
1	9.931	11,253,660	N/A	98.70%	—	—	1.34	11,447
2	10.325	93,482	N/A	0.82%	—	1.19	—	20,346

Resolution color-coded: Green ($Rs \geq 2.0$ or N/A for single peak), Yellow ($Rs \geq 1.0$), Red ($Rs < 1.0$). Values calculated from instrument data or derived from peak widths (USP <621>).

About minor peaks: Minor peaks are common in synthetic peptides and typically represent synthesis-related by-products such as incomplete sequences or minor structural variants. They are accounted for in the purity calculation. HPLC-UV measures their quantity but does not identify them — specific identification would require additional mass spectrometry analysis.

METHOD INFORMATION

Instrument	LCMS Line 1
Verification	PeptideVerify Independent Verification
Method	HPLC
Detection	215 nm (± 4 nm)

ANALYST NOTES

No additional comments or observations for this analysis.

Purity Calculation Method: Purity is reported according to our validated laboratory method. For **single-peak samples**, purity equals the Peak Purity Index $\times 100$ — a spectral-homogeneity measure that detects co-eluting species hidden beneath the main peak. For **multi-peak samples**, purity equals the chromatographic main-peak %purity (Area% of the total integrated UV signal) multiplied by the main peak's Peak Purity Index, giving an overall purity that accounts for both extraneous peaks and any spectral heterogeneity within the main peak. For **blends**, each component's purity is reported individually as its Peak Purity Index $\times 100$, with the ratio between components determined by their relative chromatographic area (Area%). This follows the Bio-Analysis Centre's validated method for multi-component samples.



CERTIFICATE VERIFICATION

INDEPENDENTLY VERIFIED

peptideverify.co.uk/verify/PV-DFCDBF-WBPP

Scan QR code or visit the URL above to verify this certificate's authenticity and view detailed analysis data.

IMPORTANT NOTE

Sample Composition reflects UV-detectable compounds only. Non-UV excipients (mannitol, sugars, salts) are not measured by this method.

PeptideVerify — Independent Third-Party Peptide Verification

Analysis performed under controlled laboratory conditions using validated analytical methods.

This certificate relates solely to the sample as received and tested. Issued for research and informational purposes only — not an endorsement for human or veterinary use.

Certificate ID: PV-DFCDBF-WBPP | Batch/Lot: PV-EEDDAF-WVKE | Customer: Pepti Nova | Generated: 20 Jun 2026, 20:39