



CERTIFICATE ID PV-C58873-WTTM	ISSUE DATE 20/06/2026	BATCH/LOT PV-259349-TOYD	CUSTOMER Pepti Nova
SAMPLE DESCRIPTION MOTS-c	EXPECTED MW 2174.6 Da	ANALYSIS DATE 13/02/2026 13:28	INSTRUMENT LCMS Line 1

VERIFICATION SUMMARY

Purity (HPLC)

99.46%

Peak Purity Index (PPI)

Mass Spectrometry

Expected MW: 2174.6 Da

Detected MW: 2173.9 Da ✓

MW calculated from m/z 544.5 [M+4H]⁴⁺

ANALYTICAL RESULTS

VERIFIED PURITY

99.46%

Peak Purity Index (PPI)

Single integrated peak detected

MAIN PEAK

#1 @ 9.067 min

TOTAL PEAKS

1

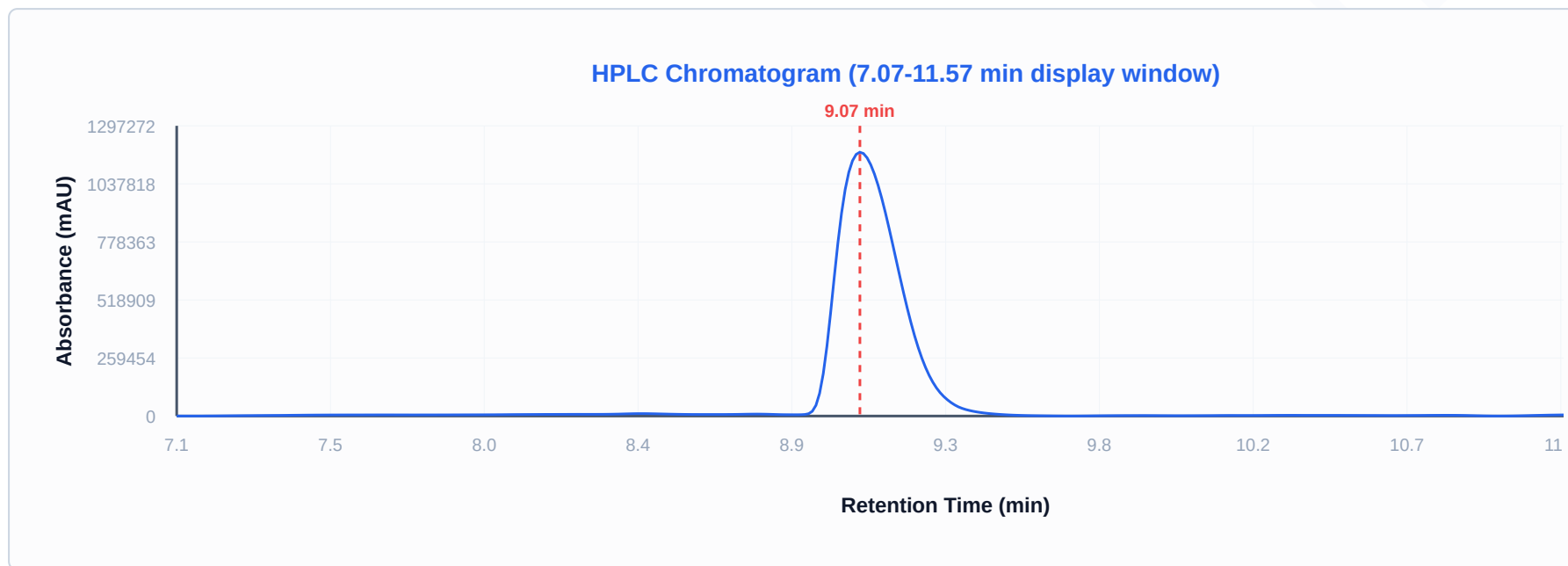
MS VERIFICATION

✓ **Confirmed**

DETECTION

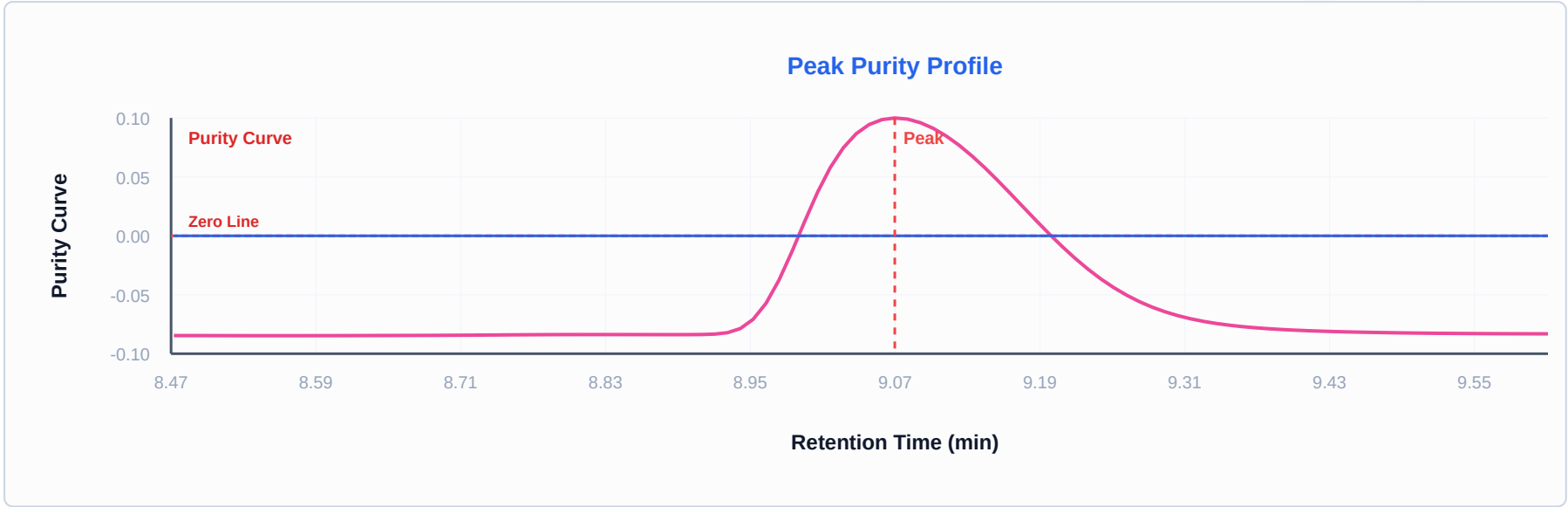
215 nm (± 4)

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	9.067	14,656,633	N/A	100.00%	—	—	1.58	11,904

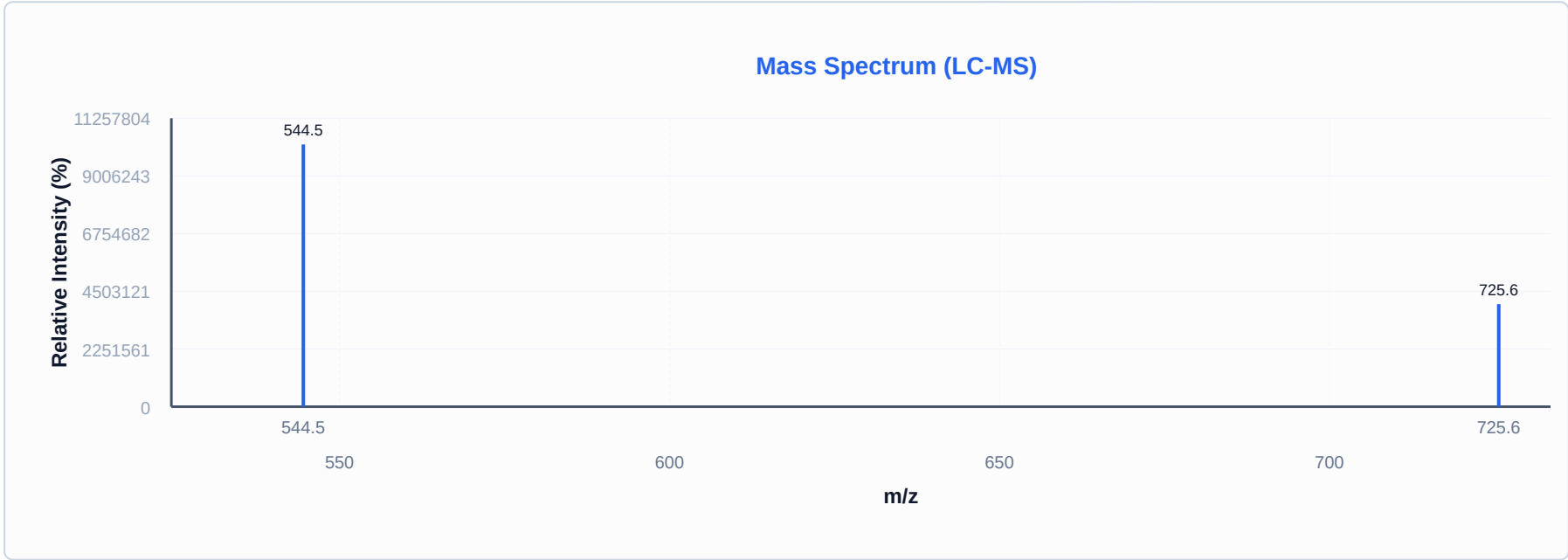
Resolution color-coded: Green ($Rs \geq 2.0$ or N/A for single peak), Yellow ($Rs \geq 1.0$), Red ($Rs < 1.0$). Values calculated from instrument data or derived from peak widths (USP <621>).

MASS SPECTROMETRY ANALYSIS (ESI+)

EXPECTED MW 2174.6 Da	DETECTED MW 2173.9 Da	MASS MATCH ✓	BASE PEAK m/z 544.50
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Predicted charge states:

- z=2+ → m/z 1088.30
- z=3+ → m/z 725.87
- z=4+ → m/z 544.65
- z=5+ → m/z 435.93
- z=6+ → m/z 363.44



DETECTED M/Z	ASSIGNMENT	INTENSITY	RELATIVE %
544.50	[M+4H] ⁴⁺	10,234,367	100.0%
725.65	[M+3H] ³⁺	4,000,924	39.1%

METHOD INFORMATION

Instrument	LCMS Line 1
Verification	PeptideVerify Independent Verification
Method	HPLC-MS
Detection	215 nm (± 4 nm)
MS Ionization	Electrospray (ESI+)

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-C58873-WTTM

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-C58873-WTTM | Batch/Lot: PV-259349-TOYD | Customer: Pepti Nova | Generated: 20 Jun 2026, 20:36