

Analytical Laboratory

# Certificate of Analysis (COA)

## Product Information

**Product Name:** PT-141  
**Cas No:** 189691-06-3  
**Molecular Weight:** 1025.2 Da  $\pm$ 1.0  
**Molecular Formula:** C50H68N14O10  
**Manufacturing Date:** 14/06/2025  
**Retest Date:** 13/06/2027  
**Amino Acid Sequence:**  
Ac-Nle-Asp-His-D-Phe-Arg-Trp-Lys-OH  
**Chemical Bridge:** Asp2-Lys7

**COA ID:** CP-PT-141-26-01  
**Batch No:** P240516-LC471226  
**Catalogue No:** 471226  
**Date Received:** 20/03/2026  
**Date Analysed:** 20/03/2026

### Analytic Methods:

- ✓ High performance liquid chromatography (HPLC)
- ✓ Mass spectrometry (LC-MS)
- ✓ Amino acid analysis

## Key Analytic Results

| Test Item                                                                                                 | Specification       | Result   | Status |
|-----------------------------------------------------------------------------------------------------------|---------------------|----------|--------|
|  Appearance            | White Powder        | Conforms | ✓ Pass |
|  Solubility            | Soluble in water    | Conforms | ✓ Pass |
|  pH                    | -                   | -        | -      |
|  Purity (HPLC)         | $\geq$ 98.0%        | 99.38%   | ✓ Pass |
|  Peptide content       | $\geq$ 80.0%        | 89.02%   | ✓ Pass |
|  Water content         | $\leq$ 6.0%         | 3.18%    | ✓ Pass |
|  Sodium content        | $\leq$ 5.0%         | -        | -      |
|  Bacterial endotoxins  | <5 EU/mg            | Conforms | ✓ Pass |
|  Molecular weight (MS) | 1025.2 Da $\pm$ 1.0 | Conforms | ✓ Pass |

## Storage Conditions

Store at -20°C  $\pm$  5°C in a cool, dry environment. Protect from light and moisture.

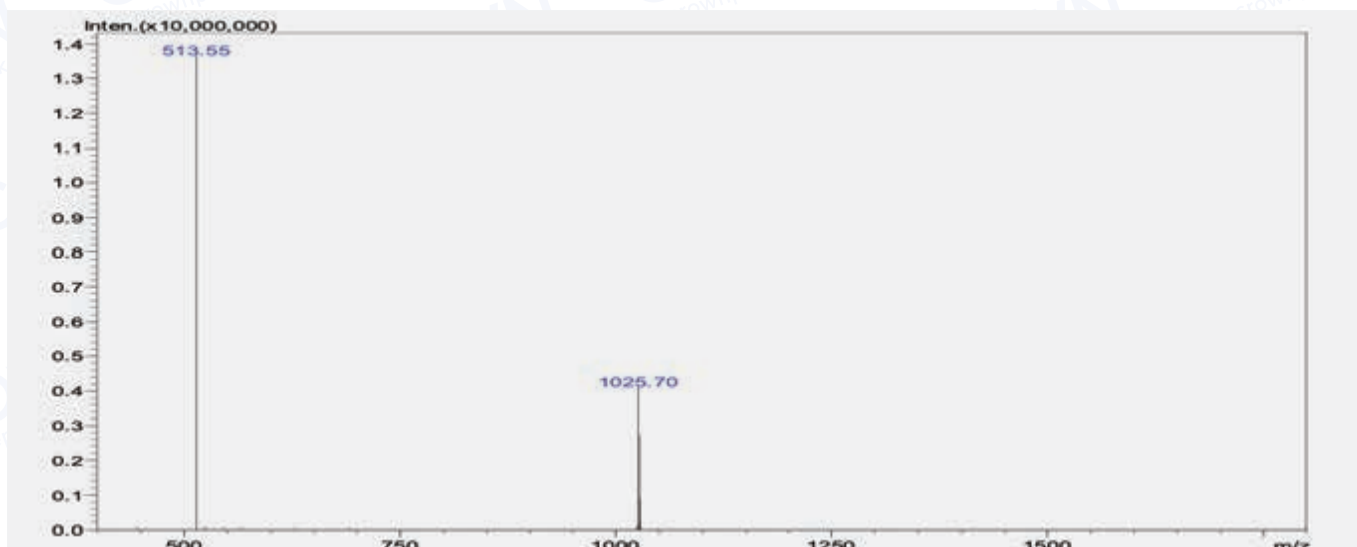
### Disclaimer

This Certificate of Analysis represents the results of testing for the specific batch listed above. The information provided is accurate to the best of our knowledge at the time of analysis. Products are intended for research use only. It is the responsibility of the end user to determine suitability for their specific application.

## Contaminant Analysis

| Contaminant           | Specification   | Result         |
|-----------------------|-----------------|----------------|
| Acetonitrile          | $\leq 410$ ppm  | ✓ Not Detected |
| Methanol              | $\leq 3000$ ppm | ✓ Not Detected |
| Piperidine            | $\leq 5000$ ppm | ✓ Not Detected |
| DMF                   | $\leq 880$ ppm  | ✓ Not Detected |
| Triethylamine         | $\leq 320$ ppm  | ✓ Not Detected |
| Dichloromethane (DCM) | $\leq 600$ ppm  | ✓ Not Detected |
| Lead (Pb)             | $\leq 0.1$ ppm  | ✓ Not Detected |
| Cadmium (Cd)          | $\leq 0.05$ ppm | ✓ Not Detected |
| Mercury (Hg)          | $\leq 0.05$ ppm | ✓ Not Detected |
| Arsenic (As)          | $\leq 0.1$ ppm  | ✓ Not Detected |

## Mass Spectrometry Report

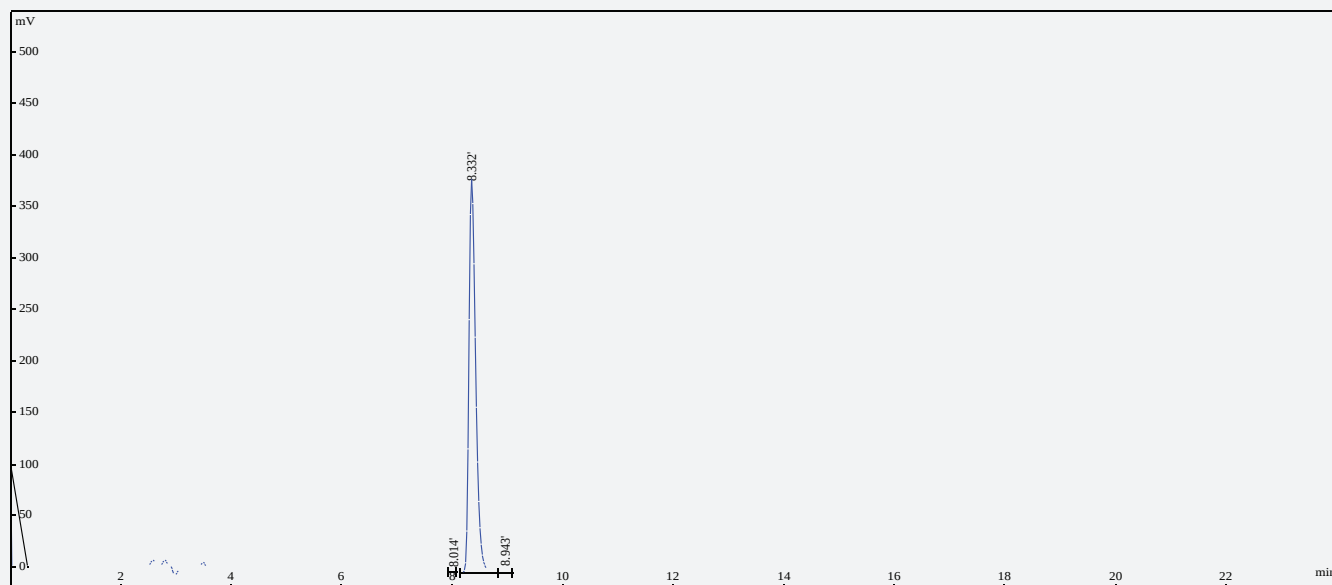


Observed molecular ion peak consistent with theoretical molecular weight.

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## HPLC Chromatogram



| Peak           | Retention Time (min) | Area %  |
|----------------|----------------------|---------|
| Principal Peak | 8.332                | 99.38%  |
| Impurity A     | 8.014                | 0.1835% |
| Impurity B     | 8.943                | 0.4359% |

Total Peak Area (Purity): 99.38%. Detection Method: UV @ 220 nm

## Laboratory statement

All analyses were conducted by Crown Peptides UK using validated in-house methodologies and calibrated analytical instrumentation. Techniques employed include High-Performance Liquid Chromatography (HPLC) for purity assessment, Mass Spectrometry (MS) for molecular identity confirmation, and additional analytical methods where applicable for quality and safety evaluation.

This document represents a simplified, customer-facing version of the full technical Certificate of Analysis. A comprehensive technical report is retained on file and available upon request.

Name: Adrian Cole

Authorised by Quality Control Department  
Crown Peptides UK Ltd. (QC Manager)

Date: 24/03/2026

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