



PT-141

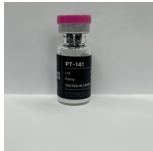
Sample 6026_0073 | Client report SYNA-PT141-10-090826

Results and chromatograms

Lot # SPPT14001

Laboratory Analysis: LAB-CA-01

Laboratory identity and applicable credentials are maintained by Testides and are available to regulatory authorities where required by law.

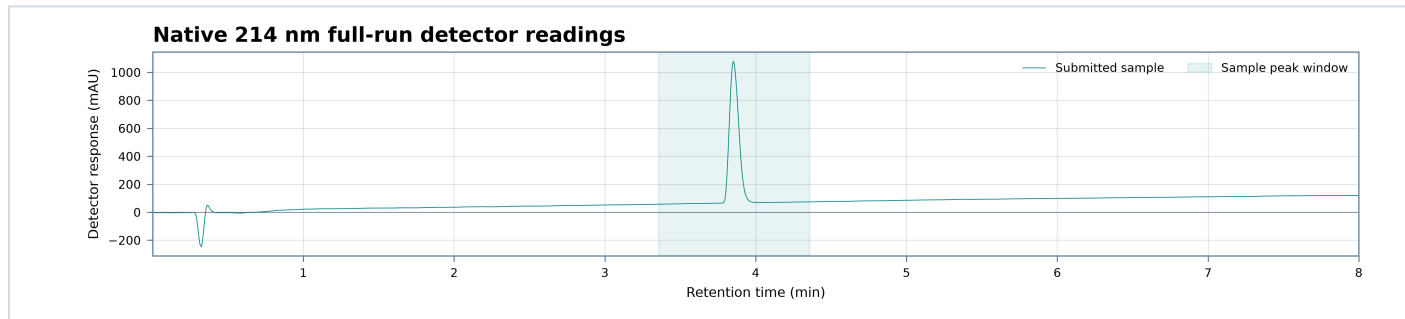
VIAL PHOTOGRAPH	SAMPLE INFORMATION	ANALYSIS	RUN DETAILS
	Peptide: PT-141 Sample ID: 6026_0073 Client ID: SYNA-PT141-10-090826 Label claim: 10 mg	Method: HPLC-DAD Channels: 214 / 280 nm + spectra Area metric: 214 nm blank-excluded Identity: LC-MS confirmed	Run date: Sep 26, 2026 First acquired: 20:12:59 UTC Last acquired: 13:43:56 UTC Run time: 8.00 min / acquisition

RESULTS AT A GLANCE

PROJECTED AMOUNT 10.96 mg† FROM THE VIAL'S 280 NM ABSORBANCE	HPLC PURITY 99.96% 214 NM AREA PERCENT, LIMIT 0.349%	CONTENT VS. LABEL 109.6% 10.96 MG OF 10 MG CLAIMED	IDENTITY (LC-MS) Confirmed MEASURED 1024.6 DA (0.06% DEV)
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CHROMATOGRAM

Complete run - 214 nm detector response



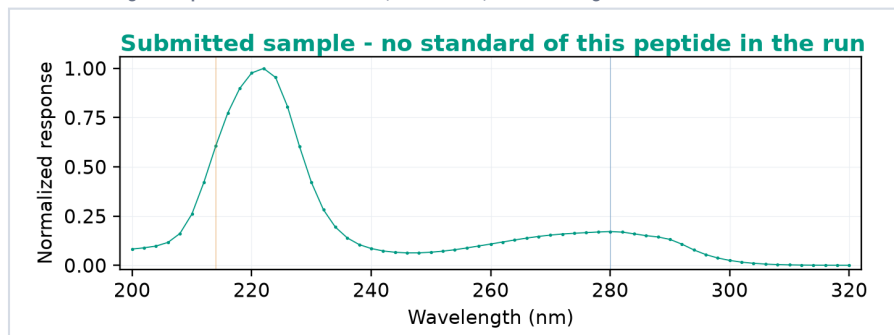
HPLC PURITY (214 NM)

Peptide + related 99.96% Main peak and UV-matched forms	Main peak area % 99.96% 1 injection(s)	Reporting limit 0.349% Smallest reportable peak	Main peak 3.85 min Retention time
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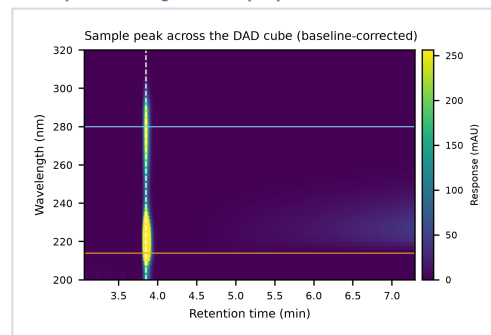
Purity is the main peak's share of the total integrated peak area at 214 nm, measured from the native detector readings. Peaks below 0.349% of total area cannot be resolved from this run's baseline and are not counted. No impurity was detected above the reporting limit; the smallest impurity this run could resolve is that limit. This result rests on a single injection; no duplicate was run.

UV SPECTRAL COMPARISON

Native wavelength samples - baseline-corrected, normalized; no smoothing



UV response through the sample peak



The complete acquisition is shown without smoothing or resampling: 1,200 native readings on the 214 nm channel.

* HPLC purity is the main peak's share of total integrated peak area at 214 nm. Peaks below 0.349% of total area are not resolvable from this run's baseline; every peak is itemised on page 3.



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Reference comparison and calculation

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AMOUNT - THE VIAL'S OWN 280 NM ABSORBANCE (FIRST PRINCIPLES)

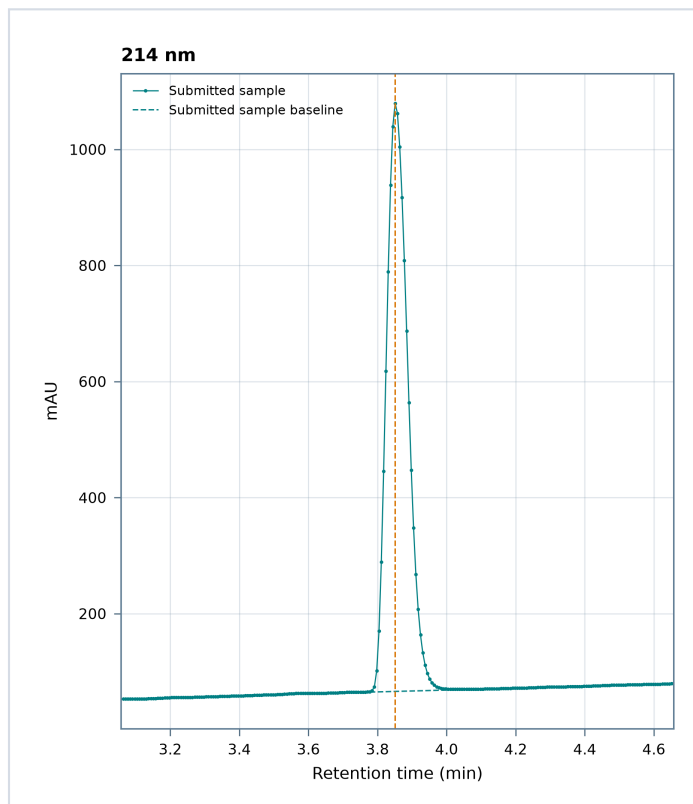
No reference standard of PT-141 was in this run

The amount is read from the vial's own UV absorbance at 280 nm by Beer-Lambert, with the extinction coefficient of PT-141's own sequence: $C = A_{280} \times MW / (k \times e_{280})$. No standard of any other peptide is used.

Sample 280 nm area 17.6459 mAU*min; $e_{280} 5500 M^{-1} cm^{-1}$; MW 1025.20 g/mol; k 0.03.

$109.64 \mu g/mL \times 2 mL \times 50 / 1000 = 10.96 mg$

SAMPLE PEAK



Native acquisition points with the exact quantitative baseline; the dashed line marks the sample peak.



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Definitions, calculation detail, and scope

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IDENTITY BY MASS SPECTROMETRY

LC-MS identification of PT 141

Identity: Confirmed

Expected ions

C50 H68 N14 O10 | MW 1025.2 Da

Charge	Expected m/z	Seen
1+	1026.2	Observed
2+	513.6	Observed
3+	342.7	-
4+	257.3	-

Observed ions

m/z	Charge	Mass (Da)	Deviation
513.3	2+	1024.6	0.059%
1025.6	1+	1024.6	0.059%

Laboratory finding

"Expected peaks observed:" HPLC-UV: Observed on HPLC-UV

Identity: the molecular mass measured by LC-MS is compared with the compound's; retention time is not used for a peptide the run holds no standard of.

HOW THE PURITY RESULT WAS MEASURED

214 nm area percent, measured from the native detector readings																	
The run's blank injections give the baseline and the detection floor. Each injection is corrected against the blanks bracketing it in time, every peak is integrated to a valley-to-valley baseline, and purity is the main peak's share of the total counted area.																	
Purity (%) = main peak area / total counted peak area x 100																	
<table><thead><tr><th>RT (min)</th><th>Area</th><th>Area %</th><th>Classification</th><th>UV vs main</th><th>Counted</th></tr></thead><tbody><tr><td>3.851</td><td>72.5885</td><td>99.960</td><td>Main peak</td><td>-</td><td>Counted</td></tr></tbody></table>	RT (min)	Area	Area %	Classification	UV vs main	Counted	3.851	72.5885	99.960	Main peak	-	Counted					
RT (min)	Area	Area %	Classification	UV vs main	Counted												
3.851	72.5885	99.960	Main peak	-	Counted												
Reporting limit 0.349% of total area counted peaks 0 injections 1																	
Area percent assumes every peak absorbs at 214 nm like the main peak.																	
Content vs. label: Amount from the vial's own UV absorbance at 280 nm (first principles), as no reference standard of PT-141 was in this run.																	

WHAT THIS REPORT CAN AND CANNOT TELL YOU

The report explains the measurement; it does not decide how a material should be used	
Observed evidence Chromatograms, reference and blank comparisons, and classified peaks.	Calculated results Area-percent purity, concentration, projected amount, and calibration trace.
Method context Retention time (standards' range or ±10%) and UV match (standards' lowest, 0.999, or 0.98 with retention).	Safety and regulatory status No conclusion on safety, efficacy, fitness for use, or regulatory status.
This analytical record does not authorize or endorse manufacture, sale, marketing, distribution, or use of the material.	