TEST REPORT

E-mail: lin@peptideformulationlab.com
Web： peptideformulationlab.com

Task Number #581637

Testing ordered > 03 Jun '26

Sample received > 08 Jun '26

Client	ShiLai™ Peptide Technologies
Sample	PT141 (10 mg)
Manufacturer	ShiLai™ Peptide Technologies
Batch	AR1636RT2

Sample description >

See picture or pictures attached.

Tests requested >

Assessment of a peptide cartridges.

Results >

PT141	10.96mg
Assay (HPLC)	100.0%
Identity (MS)	Confirmed
Purity	99.88%
Related Impurities	≤0.8%
pH	5.8 ± 0.2
Endotoxin	<0.5 EU/mg
Sterility	Pass

Analysis conducted > 10 Sep 2026

Signature >

Go to the website peptideformulationlab.com and contact the relevant person in charge to verify this test document.

47KM582361XR8

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The photo of sample：



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PT141 Injection Pen (illustrative laboratory data) - Stability by HPLC (10mg)

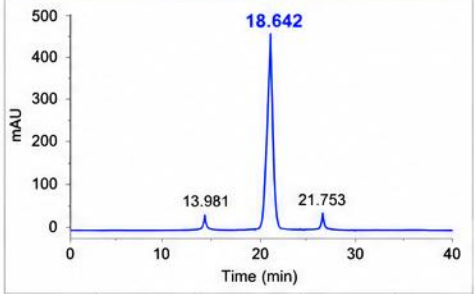
Product Name	:	PT141 Injection Pen (illustrative laboratory data) - (10mg)	**Sample Conc.**	:	3.333 mg/mL
Batch No.	:	AR1636RT2	**System**	:	Agilent 1260 Infinity II
Strength	:	10 mg / Pen	**Software**	:	OpenLAB CDS
Diluent	:	Bacteriostatic Water for Injection	**Run Time**	:	40 min
Column	:	Waters Xbridge BEH C18, 4.6 × 150 mm, 3.5 µm	**Wavelength**	:	220 nm
Mobile Phase	:	A: 0.1% TFA in Water B: 0.1% TFA in Acetonitrile	**Data Rate**	:	10 Hz
			Study Condition	:	Reconstituted and stored at 2–8 °C
Gradient	:	5% B to 60% B in 30 min	**Evaluation**	:	Area Normalization
Flow Rate	:	1.0 mL/min	**Report Date**	:	2026-09-10
Column Temp	:	30 °C			
Detection	:	UV 220 nm			
Injection Vol.	:	10 µL			

SUMMARY OF RESULTS (2–8 °C)

Time Point	Assay (%)	Purity (%)	Total Impurities (%)	pH
Day 0	100.0	99.88	0.12	7.22
Day 30	99.9	99.81	0.19	7.20
Day 60	99.7	99.68	0.32	7.18
Day 90	99.5	99.51	0.49	7.16

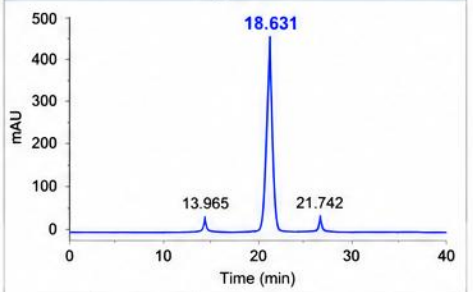
HPLC CHROMATOGRAMS (UV 220 nm)

Day 0 (Initial)



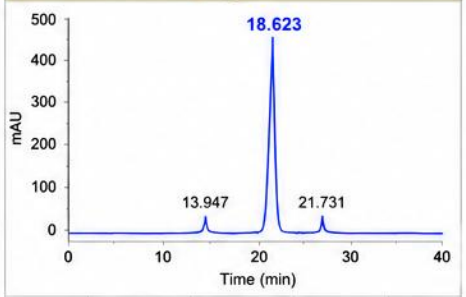
Peak No.	Retention Time (min)	Peak Name	Area (mAU·s)	Area (%)
1	13.981	Impurity 1	8,254	0.07
2	**18.642**	**PT141**	**11,602,341**	**99.88**
3	21.753	Impurity 2	5,855	0.05
Total			**11,616,450**	**100.00**

Day 30



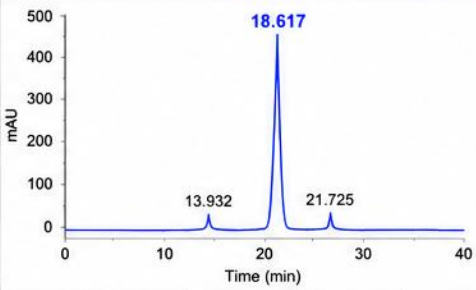
Peak No.	Retention Time (min)	Peak Name	Area (mAU·s)	Area (%)
1	13.965	Impurity 1	12,862	0.11
2	**18.631**	**PT141**	**11,542,327**	**99.81**
3	21.742	Impurity 2	9,156	0.08
Total			**11,564,345**	**100.00**

Day 60



Peak No.	Retention Time (min)	Peak Name	Area (mAU·s)	Area (%)
1	13.947	Impurity 1	21,648	0.18
2	**18.623**	**PT141**	**11,489,546**	**99.68**
3	21.731	Impurity 2	16,124	0.14
Total			**11,527,318**	**100.00**

Day 90

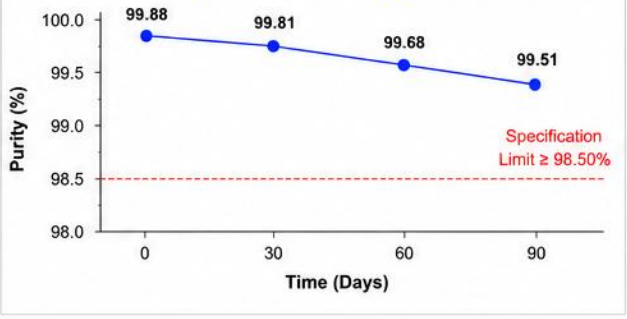


Peak No.	Retention Time (min)	Peak Name	Area (mAU·s)	Area (%)
1	13.932	Impurity 1	28,743	0.25
2	**18.617**	**PT141**	**11,417,862**	**99.51**
3	21.725	Impurity 2	16,698	0.15
Total			**11,463,303**	**100.00**

STABILITY DATA (2–8 °C)

Time Point	Assay (%)	Purity (%)	Total Impurities (%)	pH	Appearance
Day 0 (Initial)	100.0	**99.88**	0.12	7.22	Clear, Colorless
Day 30	99.9	**99.81**	0.19	7.20	Clear, Colorless
Day 60	99.7	**99.68**	0.32	7.18	Clear, Colorless
Day 90	99.5	**99.51**	0.49	7.16	Clear, Colorless

Purity Trend Over 90 Days (2–8 °C)



SYSTEM SUITABILITY (Day 0)

Parameter	Result	Acceptance Criteria
Retention Time (PT141)	18.642 min	N/A
Theoretical Plates (N)	18,925	≥ 10,000
Tailing Factor (T)	1.09	≤ 2.0
Resolution (Rs, Imp1)	4.63	≥ 1.5
Resolution (Rs, Imp2)	5.28	≥ 1.5

CONCLUSION

Under refrigerated conditions (2–8 °C), the reconstituted PT141 Injection Pen maintained excellent chemical stability for 90 days. Purity remained above 99.50%, with minimal increase in total impurities and no significant change in pH or appearance.