TEST REPORT

E-mail: lin@peptideformulationlab.com
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Task Number #401732

Testing ordered > 07 May '26

Sample received > 10 May '26

Client	ShiLai™ Peptide Technologies
Sample	GHK-CU (100 mg)
Manufacturer	ShiLai™ Peptide Technologies
Batch	AR1636RT2

Sample description >

See picture or pictures attached.

Tests requested >

Assessment of a peptide cartridges.

Results >

GHK-CU	100.98mg
Assay (HPLC)	99.74%
Identity (MS)	Confirmed
Purity	99.74%
Related Impurities	≤0.8%
pH	5.8 ± 0.2
Endotoxin	<0.5 EU/mg
Sterility	Pass

Analysis conducted > 13 Aug 2026

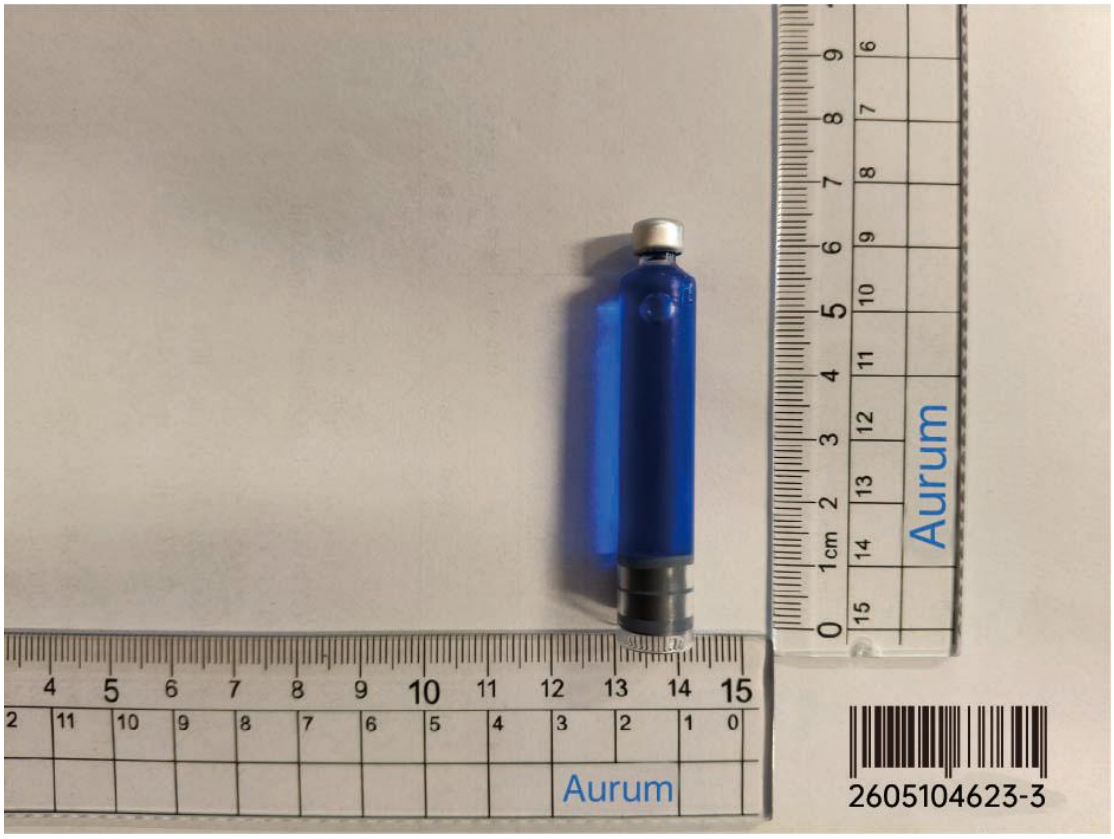
Signature >

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

14PV835072DF9

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The photo of sample：



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GHK-Cu Injection Pen (illustrative laboratory data) - Stability by HPLC (100mg)

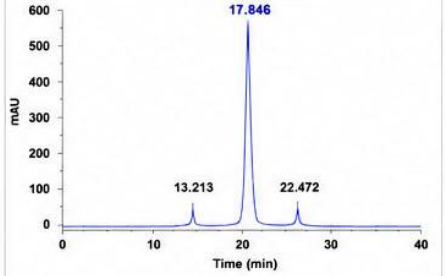
Product Name	:	GHK-Cu Injection Pen (illustrative laboratory data) - (100mg)	**Sample Conc.**	:	33.333mg/mL
Batch No.	:	AR1636RT2	**System**	:	Agilent 1260 Infinity II
Strength	:	100 mg / Pen	**Software**	:	OpenLAB CDS
Diluent	:	Bacteriostatic Water for Injection	**Run Time**	:	40 min
Column	:	Waters Xbridge BEH C18, 4.6 × 150 mm, 3.5 µm	**Wavelength**	:	260 nm
Mobile Phase	:	A: 0.1% TFA in Water	**Data Rate**	:	10 Hz
		B: 0.1% TFA in Acetontirile	**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**	:	2026-08-13
Column Temp	:	30 °C			
Detection	:	UV 260 nm			
Injection Vol.	:	10 µL			

SUMMARY OF RESULTS (2–8 °C)

Time Point	Assay (%)	Purity (%)	Total Impurities (%)	pH
Day 0 (Initial)	100.0	99.74	0.23	6.80
Day 30	99.4	99.60	0.38	6.77
Day 60	99.9	99.33	0.56	6.73
Day 90	98.2	99.06	0.94	6.68

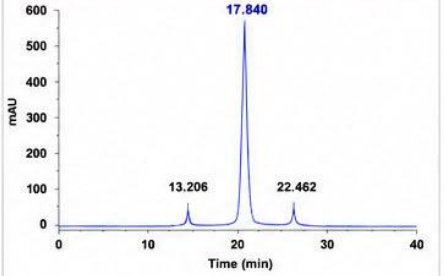
HPLC CHROMATOGRAMS (UV 260 nm)

Day 0 (Initial)



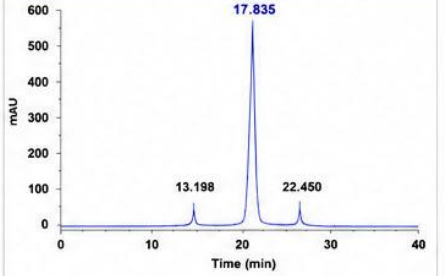
Peak No.	Retention Time (min)	Peak Name	Area (mAU*s)	Area (%)
1	13.213	Impurity 1	1,684	0.13
2	17.846	GHK-Cu	1,353,668	99.74
3	22.472	Impurity 2	2,954	0.23
Total			1,358,306	100.00

Day 30



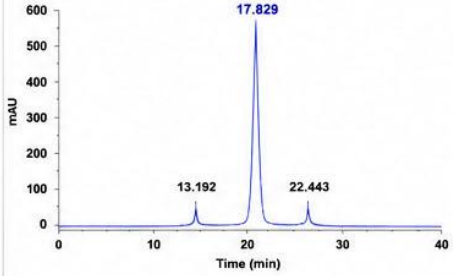
Peak No.	Retention Time (min)	Peak Name	Area (mAU*s)	Area (%)
1	13.206	Impurity 1	2,125	0.15
2	17.840	GHK-Cu	1,411,074	99.60
3	22.462	Impurity 2	3,413	0.24
Total			1,416,612	100.00

Day 60



Peak No.	Retention Time (min)	Peak Name	Area (mAU*s)	Area (%)
1	13.198	Impurity 1	2,664	0.16
2	17.835	GHK-Cu	1,581,970	99.33
3	22.250	Impurity 2	4,426	0.28
Total			1,589,060	100.00

Day 90

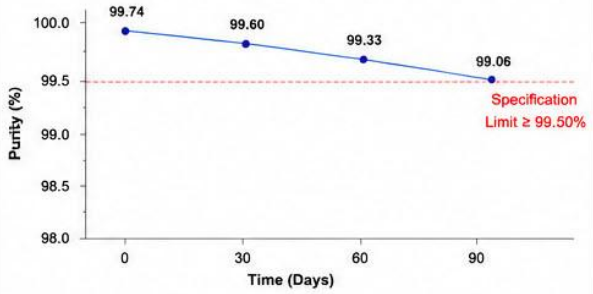


Peak No.	Retention Time (min)	Peak Name	Area (mAU*s)	Area (%)
1	13.192	Impurity 1	3,001	0.17
2	17.829	GHK-Cu	1,680,227	99.06
3	22.443	Impurity 2	6,020	0.35
Total			1,689,248	100.00

STABILITY DATA (2–8 °C)

Time Point	Assay (%)	Purity (%)	Total Impurities (%)	pH	Appearance
Day 0 (Initial)	100.0	99.74	0.23	6.80	Clear, Colorless
Day 30	99.4	99.60	0.38	6.77	Clear, Colorless
Day 60	99.9	99.33	0.56	6.73	Clear, Colorless
Day 90	98.2	99.06	0.94	6.88	Clear, Colorless

Purity Trend Over 90 Days (2–8 °C)



SYSTEM SUITABILITY (Day 0)

Parameter	Result	Acceptance Criteria
Retention Time (GHK-Cu)	17.846 min	N/A
Theoretical Plates (N)	22,874	≥ 10,000
Tailing Factor (T)	1.03	≤ 2.0
Resolution (Rs, Imp1)	4.85	≥ 1.5
Resolution (Rs, Imp2)	5.29	≥ 1.5

CONCLUSION

Under refrigerated conditions (2–8 °C), the reconstituted GHK-Cu Injection Pen (100 mg) maintained excellent chemical stability for 90 days. Purity remained above 99.06%, with minimal increase in total impurities and no significant change in pH or appearance.