PEP CODE
CERTIFICATE OF ANALYSIS

CoA No.: PC-BPL2608LIWEEH
Issue Date: 2026-05-02

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Guangzhou PeiMa Biotechnology Co., Ltd.
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PRODUCT **SX5 | XA5** 5mg*10vials

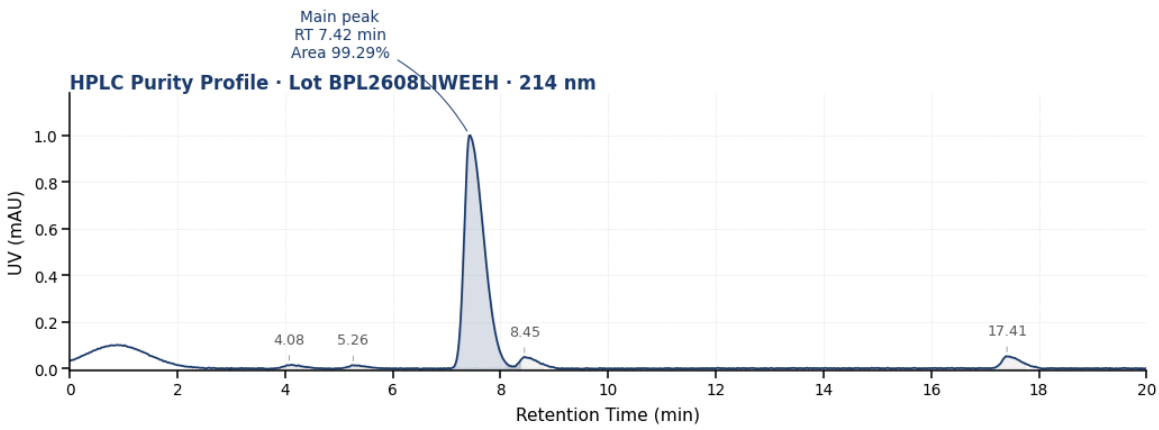
Product Name	SX5 | XA5	Chemical Name	Semax
Lot / Batch No.	BPL2608LIWEEH	Specification	5mg*10vials
CAS No.	80714-61-4	Manufacture Date	2026-04-04
Retest / Expiry	2028-04-04	Shelf Life	24 months
Storage	-20 °C, sealed, protect from light & moisture		

1 SPECIFICATION & TEST RESULTS

Test Item	Test Method	Specification	Result	Conclusion
Appearance	Visual	White to off-white lyophilized powder	White to off-white powder	**Conforms**
Identification	MS / ^{1}H NMR	Consistent with reference standard	Conforms	**Conforms**
Assay (Peptide Content)	Amino Acid Analysis	95.0 – 105.0 %	102.0 %	**Pass**
Purity (HPLC)	RP-HPLC / UV 214 nm	≥ 98.0 %	99.29 %	**Pass**
Single Impurity	RP-HPLC	≤ 1.0 %	0.32 %	**Pass**
Total Impurities	RP-HPLC	≤ 2.0 %	0.44 %	**Pass**
Water Content (KF)	Karl Fischer	≤ 6.0 %	4.64 %	**Pass**
Acetate Content	IC / HPLC	≤ 15.0 %	11.31 %	**Pass**
Bacterial Endotoxin	Gel-Clot / LAL	≤ 10 EU/mg	< 10.0 EU/mg	**Pass**
Heavy Metals	ICP-MS	≤ 10 ppm	< 10 ppm	**Pass**
Residual Solvents	GC (USP <467>)	Complies with USP <467>	Complies	**Conforms**
Mass Balance	Calculation	97.0 – 103.0 %	101.2 %	**Pass**
Amino Acid Analysis	AAA	Conforms (±10%)	Conforms (±10%)	**Conforms**

RESULT: CONFORMS / PASSED The above batch meets PEP CODE enterprise specification and is released for export sale.

2 HPLC CHROMATOGRAPHIC PURITY



Method: Reversed-phase HPLC / UV · Column: C18, 4.6 × 250 mm, 5 µm
Mobile phase: 0.1% TFA in H_2O / ACN · Flow: 1.0 mL/min · Detection: UV 214 nm
Gradient: 5→60% B over 20 min · Main peak RT: 7.42 min
Peak Purity (Area): **99.29%** Single Impurity: **0.32%** Total Impurities: **0.44%** Ref: USP <621> / ICH Q2(R1)

Authorized by

Quality Manager

Date

2026-05-02

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