# PEP CODE
## CERTIFICATE OF ANALYSIS

**CoA No.:** PC-BPL26085HEU4H
**Issue Date:** 2026-02-02


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**Guangzhou PeiMa Biotechnology Co., Ltd.**
B3, International Biomedicine Innovation Park, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou, China
Web: https://pepcode.co

**PRODUCT** **MS10** 10mg*10vials

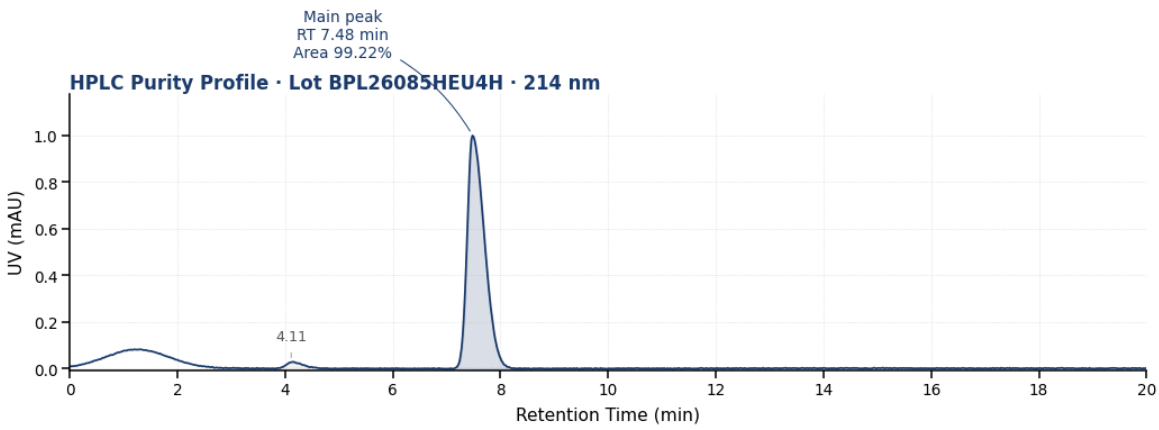
| | | | |
|---|---|---|---|
| Product Name | MS10 | Chemical Name | MOTS-C |
| Lot / Batch No. | BPL26085HEU4H | Specification | 10mg*10vials |
| CAS No. | 1627580-97-9 | Manufacture Date | 2026-01-05 |
| Retest / Expiry | 2028-01-05 | Shelf Life | 24 months |
| Storage | -20 °C, sealed, protect from 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 % | 101.3 % | **Pass** |
| Purity (HPLC) | RP-HPLC / UV 214 nm | ≥ 98.0 % | 99.22 % | **Pass** |
| Single Impurity | RP-HPLC | ≤ 1.0 % | 0.14 % | **Pass** |
| Total Impurities | RP-HPLC | ≤ 2.0 % | 0.17 % | **Pass** |
| Water Content (KF) | Karl Fischer | ≤ 6.0 % | 3.17 % | **Pass** |
| Acetate Content | IC / HPLC | ≤ 15.0 % | 7.75 % | **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 % | 101.5 % | **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: 7.48 min
Peak Purity (Area): **99.22%** Single Impurity: **0.14%** Total Impurities: **0.17%** Ref: USP <621> / ICH Q2(R1)

**Authorized by**

**Quality Manager**

**Date**

2026-02-02

Guangzhou PeiMa Biotechnology Co., Ltd. 广州肽码生物科技有限公司 5487912547 8

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