PEP CODE
CERTIFICATE OF ANALYSIS

CoA No.: PC-BPL26087QWNI7
Issue Date: 2026-06-26

QR

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

PRODUCT **MS20** 20mg *10 vials

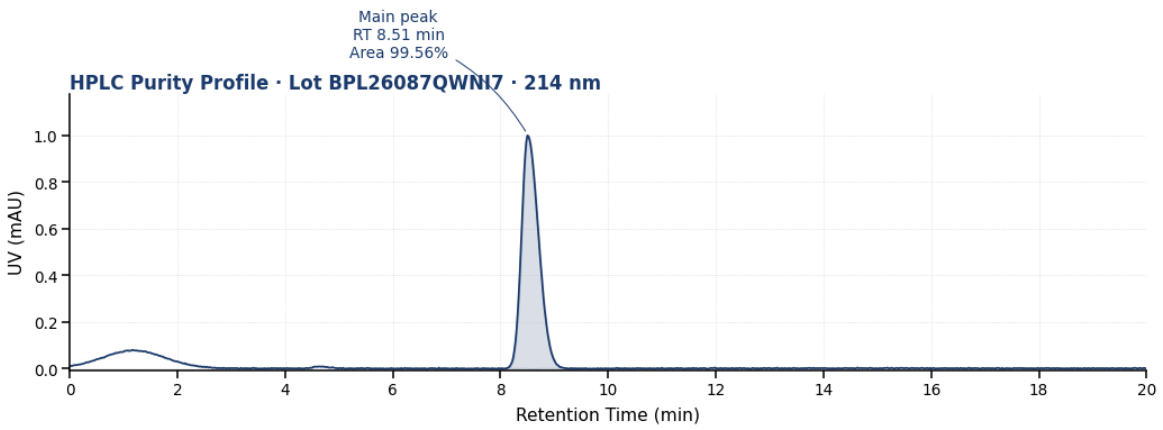
Product Name	MS20	Chemical Name	MOTS-C
Lot / Batch No.	BPL26087QWNI7	Specification	20mg *10 vials
CAS No.	1627580-97-9	Manufacture Date	2026-06-07
Retest / Expiry	2026-06-07	Shelf Life	24 months
Storage	-20 °C, sealed, protect from light & moisture		

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 %	99.1 %	**Pass**
Purity (HPLC)	RP-HPLC / UV 214 nm	≥ 98.0 %	99.56 %	**Pass**
Single Impurity	RP-HPLC	≤ 1.0 %	0.41 %	**Pass**
Total Impurities	RP-HPLC	≤ 2.0 %	0.44 %	**Pass**
Water Content (KF)	Karl Fischer	≤ 6.0 %	3.9 %	**Pass**
Acetate Content	IC / HPLC	≤ 15.0 %	5.01 %	**Pass**
Bacterial Endotoxin	Gel-Clot / LAL	≤ 10 EU/mg	< 5.0 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 %	99.1 %	**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: 8.51 min
Peak Purity (Area): **99.56%** Single Impurity: **0.41%** Total Impurities: **0.44%** Ref: USP <621> / ICH Q2(R1)

Authorized by

Quality Manager

Date

2026-06-26

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

广州肽码生物科技有限公司 质检专用章

Disclaimer: This product is manufactured exclusively for laboratory research use. It is not intended for diagnostic, therapeutic, or human consumption. All data presented herein is obtained under standardized testing conditions and is believed to be accurate. No warranty, expressed or implied, is made regarding the suitability of this product for any specific application. The user assumes full responsibility for proper handling and use of this material.