



PEP CODE
CERTIFICATE OF ANALYSIS

CoA No.: PC-
BPL2608WYDASE
Issue Date:
2026-04-08
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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 **MS40** 40mg*10vials

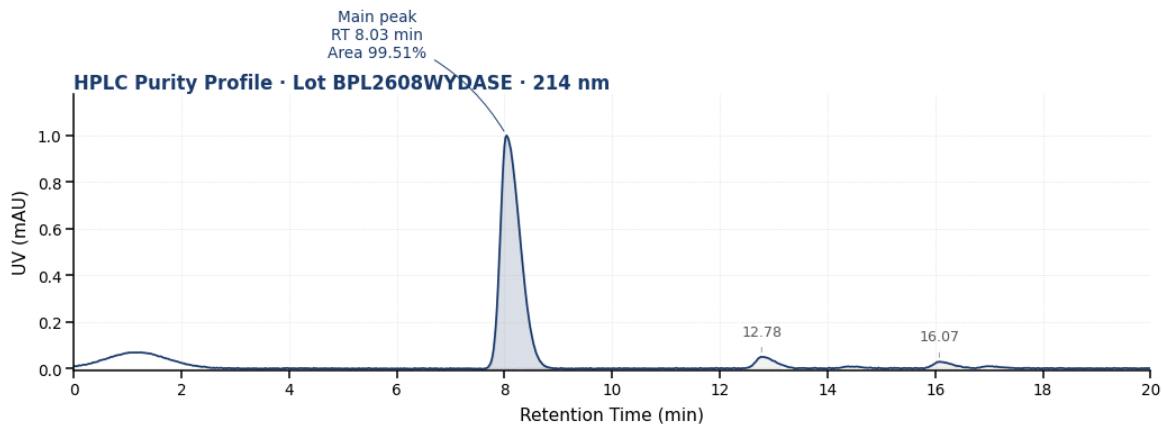
Product Name	MS40	Chemical Name	MOTS-C
Lot / Batch No.	BPL2608WYDASE	Specification	40mg*10vials
CAS No.	1627580-97-9	Manufacture Date	2026-03-31
Retest / Expiry	2026-03-28	Shelf Life	24 months
Storage	-20 °C, sealed, protect from light & moisture		

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 %	98.6 %	Pass
Purity (HPLC)	RP-HPLC / UV 214 nm	≥ 98.0 %	99.51 %	Pass
Single Impurity	RP-HPLC	≤ 1.0 %	0.12 %	Pass
Total Impurities	RP-HPLC	≤ 2.0 %	0.42 %	Pass
Water Content (KF)	Karl Fischer	≤ 6.0 %	2.53 %	Pass
Acetate Content	IC / HPLC	≤ 15.0 %	7.3 %	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 %	99.9 %	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 H₂O / ACN · Flow: 1.0 mL/min · Detection: UV 214 nm
Gradient: 5→60% B over 20 min · Main peak RT: 8.03 min
Peak Purity (Area): **99.51%** Single Impurity: **0.12%** Total Impurities: **0.42%** Ref: USP <621> / ICH Q2(R1)

Authorized by

陈永涛

Quality Manager

李永红

Date

2026-04-08



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