

Certificate of Analysis

Product Name: Melanotan 2 Acetate (Specification 10mg)	
CAS No.: 121062-08-6	Lot No.: MT2-20260712G
Molecular Formula: C ₅₀ H ₆₉ N ₁₅ O ₉ ·C ₂ H ₄ O ₂	Manufacturing Date: 2026.07.12
Molecular Weight: 1024.17 Da	Retest Date : 2027.07.12
Peptide Sequence: H-Nle-Asp-His-D-Phe-Arg-Trp-Lys-NH ₂ (Acetate Salt)	
Store at:	
Lyophilized bulk powder: Store at ≤ -20°C, protected from light & moisture	
Reconstituted solution: Store at 2–8°C, use within 7 days	

TEST	SPECIFICATION	RESULT
Appearance	White to off-white lyophilized powder	Conform
MS (ESI)	Match theoretical molecular ion	Consistent with target mass
Purity (RP-HPLC)	≥98.0%	99.4%
Total Related Substances	≤ 2.0%	0.60%
(RP-HPLC)		
Water Content (Karl Fischer)	≤ 8.0%	3.2%
Acetic Acid Content (IC/HPLC)	≤ 12.0%	6.5%
Organic Solvents Residue	Total ≤ 1.0%	<0.1%
(GC)Acetonitrile / DCM / DMF / Ethanol		
Cadmium (Cd)	≤0.1 ppm	N.D.
Lead (Pb)	≤0.5 ppm	N.D.
Mercury (Hg)	≤0.1 ppm	N.D.
Arsenic (As)	≤0.3 ppm	N.D.
Endotoxin (LAL Method, injectiongrade mandatory)	≤ 5 EU/mg protein	<0.6 EU/mg
Total Aerobic Microbial Count	≤ 100 CFU/g	<10 CFU/g
Yeast & Mould Count	≤ 10 CFU/g	<10 CFU/g

Conclusion: The product conforms with enterprise standard and qualified.

QC Director: Hao Chen

- 1.The material is non-explosive, non-corrosive, non-radioactive, non-flammable, non-toxic and harmful, and is not a raw material for the manufacture of chemical weapons.
- 2.This product is a sample of chemical synthesis (not of a biological origin i.e. not of animal, human or plant origin)
- 3.The above material is to be used exclusively for in vitro laboratory research purposes only.

Anhui Rentong Import and Export Co.,LTD