

Certificate of Analysis (COA)

Product Name: Melanotan II (MT-2)

Lot No.: 3132128

Sequence: Ac-Nle-Asp-His-D-Phe-Arg-Trp-Lys-NH2

Modifications: Cyclic heptapeptide (lactam cyclization between Asp and Lys)- N-terminal acetylation (Ac-)- C-terminal amidation (-NH2)- D-amino acid substitution (D-Phe)- Methionine replaced by Norleucine (Nle)- Synthetic melanocortin analog

Storage Conditions: -20°C

Report Date: 05 March 2026

Test Results

Test Item	Specification	Result
Appearance	White to off-white lyophilized powder	Conforms
Molecular Weight (MS)	1024.2 ±1.0 Da	1024.3 Da
Purity (HPLC)	>98%	99.2%
Retention Time (HPLC)	+0.2 min of standard	Conforms
Assay	95.0–105.0%	99.0%
Solubility	Freely soluble in water	Conforms
Acetic Acid Content	≤ 5000 ppm	1300 ppm
TFA Content	≤ 50 ppm	14 ppm
DCM Content	≤ 50 ppm	N.D.
DMF Content	≤ 100 ppm	N.D.
E. Coli & Salmonella	Absent	N.D.
Total Aerobic Count	≤100 CFU/g	<10 CFU/g
Yeast & Molds Count	≤10 CFU/g	<10 CFU/g
Endotoxins	≤0.5 EU/mg	<0.05EU/mg