

Certificate of Analysis

Catalog Number: 598480

Product Name: Melanotan 2

Cas No: 121062-08-6

Manufacturing Date: 08/11/2024

Manufacturer: MediKlic (GuFan) US

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

Lot Number: P241108-LC598480

Molecular Formula: C₅₀H₆₉N₁₅O₉

Molecular Weight: 1024.18

Storage Conditions: Store in a cool, dry place, away from direct sunlight and moisture

Stability: Verified under long-term storage conditions

Shelf Life: 24 months from manufacturing date

Analysis Summary:

Appearance: White to off-white powder - Consistent

Purity (HPLC): >98% - 99.21%

Peptide content: >80% - 97.10%

Water: <6% - 2.85%

Acetic Acid: <0.5% - 0.09%

Trichloroacetic Acid: <0.5% - 0.12%

Endotoxin: <50EU/mg - Consistent

MS: Consistent - Consistent

Heavy Metals: <10ppm - <5ppm

Residual Solvents: Within USP Limits - Within USP Limits

Endotoxins: Not Detected - Not Detected

Testing & Verification Methods:

- HPLC (High-Performance Liquid Chromatography): Confirms purity and detects impurities

- Mass Spectrometry (MS): Ensures correct molecular weight

- NMR Spectroscopy: Validates molecular structure

- Microbial Testing: Screens for bacterial and fungal contamination

Compliance & Quality Assurance:

- GMP Manufacturing: Yes
- ISO 17025 Lab Tested: Yes
- Bacterial Endotoxin-Free: Yes
- USP Compliant: Yes
- European Pharmacopoeia (EP): Yes

This product has been tested and verified for purity, identity, and consistency in compliance with ISO 17025-certified laboratories and GMP manufacturing standards. All analytical data is recorded and available upon request.

Authorized By:

Quality Control Department, MediKlic

Laboratory Analyst / Senior Chemist