



Certificate of Analysis

Melanotan-2

Cas No.,	121062-08-6	Molecular Formula	C50H69N15O9
Molecular Weight	1024.2	Reference Standard	Enterprise Standard
Batch No.	MLNT220241120	Manufacturing Date	November 20, 2024
Batch Quantity	100G	Expiration Date	November 19, 2026
Appearance	White to off-white powder	Country of Origin	China
Items	Specification	Result	Method
Appearance	White to off-white powder	Confirm	Observation
Solubility	Soluble in water	Confirm	Observation
Water	NMT 10.0%	4.70%	(Karl Fischer)
Acetic acid	NMT 15.0%	7.70%	HPLC USP<621>
Peptide Purity	NLT 98%	99.40%	HPLC USP<621>
Related Substance	Total Impurities NMT 2.0%	0.60%	HPLC USP<621>
	Largest Single Impurity NMT 1.0%	0.20%	HPLC USP<621>
Chemical Characteristics			
Heavy Metals	NMT 10PPM	confirm	USP <231> Method II
Arsenic (As)	NMT 10ppm	confirm	ICP-MS USP <233>
Mercury(Hg)	NMT 0.3ppm	confirm	ICP-MS USP <233>
Heavy Metals (Hplc), ppm	NMT 10	Not Detected	ICP-MS USP <233>
Microbiological Characteristics			
Total Plate Count	NMT1000cfu/g	confirm	USP<61>
Total Yeast & Mold	NMT100cfu/g	confirm	USP<61>
E. Coli	Negative	Negative	USP<62>
Salmonella	Negative	Negative	USP<62>
Consulation	Conforms to standard , The product is for research or production use only, not for direct human use.		
Packing and Storage	Store in dark and cool dry place, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.		

Tested by: *Fin Li*

Date: November 27, 2024

Approved by: *Qad Hac*

Date: November 27, 2024