

Certification of Analysis

Melanotan I Acetate

Other Name	[Nle ⁴ , D-Phe ⁷]-alpha-MSH	CAS No.	75921-69-6
Molecular Formula	C ₇₈ H ₁₁₁ N ₂₁ O ₁₉	Batch No.	20090809
Molecular Weight	1646.9	Manufacturing	08/09/2009
Storage	2~8℃	Retest Date	08/08/2011
Sequence	Ac-Ser-Tyr-Ser-Nle-Glu-His-D-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH ₂		
TEST		SPECIFICATION	RESULT
1	Appearance	White powder or Off-white powder	White powder
2	Solubility	Soluble in water or 10% acetic acid at a concentration of ≥1mg/ml to give a clear, colorless solution	Conforms
3	Amino Acid Composition	±10% of theoretical	Conforms
4	Peptide Purity (By HPLC)	≥95.0% by area integration	98.12%
5	Related Substance(By HPLC)	Total Impurities(%)≤5.0% Largest Single Impurity(%)≤2.0%	1.88% 1.30%
6	Acetate Content(By HPLC)	≤15.0%	4.93%
7	Water Content(Karl Fischer)	≤8.0%	4.35%
8	Bacterial Endotoxins	≤5 IU/mg	Conforms

Quality Control By Zhouzhongbin Date: 2009-08-31

Quality Assurance Department