

Certificate of Analysis

Product Name :	Bremelanotide Acetate	CAS No. :	1607799-13-2 (Acetate)
Molecular Formula:	C ₅₀ H ₆₈ N ₁₄ O ₁₀	Molecular Weight :	1025.16
		Manufacturing Date:	2026-01-10
Lot No.:	HDC20250109	Retest Date :	2028-01-09
Sequence	Ac-Nle-Asp-His-D-Phe-Arg-Trp-Lys-OH Chemical Bridge Asp2-Lys7		
Store at :	Cool dry place (Kept away from sunlight and moisture).		
Tests	Specifications	Results	
Appearance	White powder	Conforms	
Solubility (water)	≥5mg/ml	Conforms	
MS (ESI)	1025.16 ± 1.0	1024.76	
Purity (HPLC)	≥98.0%	99.75%	
Related Substance (HPLC)	Any individual impurity ≤1.0%	0.14%	
Peptide Content (N%)	≥80.0%	84.63%	
Water Content (Karl Fischer)	≤10.0%	1.48%	
Amino Acid analysis	His 0.8~1.2	0.95	
	Asp 0.8~1.2	0.97	
	Arg 0.8~1.2	1.14	
	Lys 0.8~1.2	0.96	
	Phe 0.8~1.2	0.99	
	Trp 0.8~1.2	0.92	
Acetate Content (HPLC)	<12.0%	8.79%	
TFA Content	≤0.5%	N.D	
Residual Solvents (GC)	Acetonitrile NMT 410ppm	N.D	
	Methanol NMT 3000ppm	N.D	
	Ether NMT 5000ppm	N.D.	
	Methylene chloride NMT 600ppm	N.D.	
	N,N-Dimethylformamide NMT 880ppm	N.D.	
	Triisopropylsilane NMT 5000ppm	304.31ppm	
Bacterial endotoxins	<10EU/mg	Conforms	
Microbial Limits	Total aerobic microbial count ≤200cfu/g	Conforms	
	Total yeast and mold count ≤200cfu/g	Conforms	
Assay (HPLC)	95.0~105.0%(on the anhydrous, acetic acid-free basis)	98.03%	

Conclusion: The testing results of this batch are complied with the Standard of In-house.