



Certificate of Analysis

Bremelanotide Acetate

Product Name : Bremelanotide Acetate
Mfg. Date : Feb 24, 2024
M.F. : $C_{52}H_{72}N_{14}O_{12}$
CAS No. : 1607799-13-2
Sequence : Ac-Nle-Asp-His-D-Phe-Arg-Trp-Lys-OH · CH₃COOH

Lot No. : DL8014
Exp. Date : Feb 23, 2027
M.W. : 1085.23
Batch Qty : 750 g

TESTS	SPECIFICATIONS		RESULTS
Appearance	White or almost white crystalline powder		White crystalline powder
Identification (MS)	1025.16 ± 1		1025.17
Solubility	Soluble in water		Conforms
Water (KF)	≤ 10.0%		2.9%
Amino Acid Composition (AAA)	Arg	0.9 – 1.1	1.0
	Phe	0.9 – 1.1	1.0
	His	0.9 – 1.1	1.1
	Asp	0.9 – 1.1	1.1
	Trp	0.9 – 1.1	1.0
	Lys	0.9 – 1.1	1.1
	Nle	0.8 – 1.2	1.0
Acetic Acid (HPLC)	≤ 15.0%		7.5%
Peptide Purity (HPLC)	≥ 98.0%		99.5%
Peptide Content (N%)	≥ 80.0%		89.3%
Related Substances (HPLC)	Individual Impurity	≤ 1.0%	0.2%
	Total Impurities	≤ 2.0%	0.5%
Assay (On Anhydrous and Acetic Acid-Free Basis) (HPLC) (CP2020)	97.0 – 105.0%		101.8%
Peptide Content (HPLC)	≥ 80.0%		89.3%
Bacterial Endotoxins (USP2022)	≤ 10 EU/mg		< 10 EU/mg
Microbial Tests (USP2022)	Total Aerobic Microbial Count	≤ 10 ² cfu/g	< 20 cfu/g
	Total Yeast and Mold Count	≤ 10 ² cfu/g	< 20 cfu/g
	<i>E. coli</i>	Absent	Absent
Conclusion: The product is a synthetic peptide and meets the In-House specifications. Long Term Storage: Store in a sealed container at 2°C - 8°C in the Fridge or in the Freezer. Distributed by Darmerica.			

Note: Analytical results transcribed from the original COA provided by Nanjing JaySenYu Biological Technology Co., Ltd. (China); Lot No. B2402005-B004.

Based on the review of the above information, the lot stands released.

	Name	Title	Signature	Date
Prepared by	Kamlesh Mistry	Quality Manager		05/06/2024
Released by	Christina Boykin	Quality Supervisor		05/23/2024