



## CERTIFICATE OF ANALYSIS

Reference document :BPT-QC-STP-2099 V03

<b>Product Name</b>		Retatrutide		
<b>CAS No.</b>		2381089-83-2		
<b>Molecular Formula</b>		C <sub>221</sub> H <sub>342</sub> N <sub>46</sub> O <sub>68</sub>		
<b>Lot No.</b>		IM9920240706		
<b>Sequence</b>		Y(Aib)QGTFTSDYSI(α-Me-Leu)LDKK{(AEEA)-γ-Glu-C20diacid}-AQ(Aib)AFIEYLLEGGPSS GAPPPS		
<b>Modifications</b>		C-Terminal Amide		
<b>Storage Conditions</b>		For less than 6-month storage, the recommended condition is 2-8℃; For longer term (> 6-month) storage, the recommended condition is minus 20℃.		
Test Items		Specifications	Results	Method
<b>Appearance</b>		White to off-white powder	White to off-white powder (Conforms)	BPT-QC-SOP-2099 V01
<b>Identification</b>	<b>Molecular Weight (MS)</b>	4731.34±1.0 Da	4731.25 Da	BPT-QC-SOP-2099 V01
	<b>Retention Time (HPLC)</b>	The retention time of the major peak of the sample solution corresponds to that of the standard solution.	Conforms	BPT-QC-SOP-2099 V01
<b>Assay</b>	<b>Purity (HPLC)</b>	≥98.0%	98.4%	BPT-QC-SOP-2099 V01
	<b>Related Substances (HPLC)</b>	Total Impurities(%)≤2.0% Largest Single Impurity(%)≤1.0%	1.6% 0.5%	BPT-QC-SOP-2099 V01
	<b>Peptide Content (HPLC)</b>	≥80.0%	90.5%	BPT-QC-SOP-2099 V01
<b>Specific Tests</b>	<b>Water Content (Karl Fischer)</b>	≤10.0%	5.7%	BPT-QC-SOP-2099 V01; USP<921>
	<b>Residual Solvent (GC; HPLC)</b>	Acetonitrile≤0.041% Trifluoroacetic≤0.500%	<0.004% <0.05%	BPT-QC-SOP-2099 V01
	<b>Bacterial Endotoxins (Gel-clot Method)</b>	<10 EU/mg	Conforms	BPT-QC-SOP-2099 V01; USP<85>
<b>Conclusion</b>	This batch was tested following the analytical procedure of BPT-QC-SOP-2099 V01. The test results met the specifications of BPT-QC-STP-2099 V03.			
Date of Mfg	06 Jul 2024	Date of Exp	05 Jul 2027	
Date of Test	22 Jul 2024	Date of Release	22 Jul 2024	
Quality Control:Feng Lan	<i>Feng Lan</i> 22 Jul 2024 <i>Reviewed</i>		Quality Assurance: Yongna Zhao	<i>Yongna Zhao</i> 22 Jul 2024 <i>Approved</i>

Biopeptek Pharmaceuticals,LLC.

Corporate headquarters: 5 Great Valley Parkway, Suite 100 Malvern, PA 19355, U.S.A Tel: 610.643.4881 www.biopeptek.com

Manufactured and Packaged at the FDA registered facility: 218 Shuangyuan Road, Chengyang, Qingdao, Shandong 266000, China (CHN)

The peptide is chemically synthesized