



## Certificate of Analysis

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<b>Product Name</b>		Sermorelin	<b>Catalog No.</b>	SMP0182
<b>Batch No.</b>		P21122006	<b>CAS No.</b>	86168-78-7
<b>Sequence</b>		H-Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-NH <sub>2</sub>		
<b>Manufacturing Date</b>		Mar,20,2024	<b>Received Date</b>	Mar,20,2024
<b>Report Date</b>		Apr,13,2024	<b>Retest Date</b>	Mar,19,2025
<b>Test Reference</b>		In-house specification/Protocol specification		
<b>Test Items</b>		<b>Standard Specification</b>		<b>Test Results</b>
<b>Appearance</b>		White to off white powder or loose lump		Conforms
<b>Solubility</b>		Soluble in water, dissolve in dilute solution of acetic acid and ethanol(96%)		Conforms
<b>Identification</b>	HPLC	The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution		The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution
	MS	3357.9+1.0		3357.2
<b>Clarity and color of solution</b>		Clear and colorless		Conforms
<b>Water</b>		≤8.0%		2.9%
<b>Acetic acid</b>		≤15.0%		6.9%
<b>Trifluoacetateion</b>		≤0.1%		N.D
<b>Related Substances (HPLC)</b>		Any individual impurity: ≤1.0% Total impurity: ≤2.0%		0.42% 0.76%
<b>Purity</b>		≥98%		99.24%
<b>Bacterial endotoxin</b>		<10EU/mg		Conforms





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<b>Residual solvents</b>	Methanol: ≤0.3%	Methanol: 0.005%	
	Isopropanol: ≤0.5%	Isopropanol: 0.043%	
	Acetonitrile: ≤0.041%	Acetonitrile: 0.033%	
	Methylene chloride: ≤0.06%	Methylene chloride: N.D	
	N,N-Dimethylformamide: ≤0.088%	N,N-Dimethylformamide: N.D	
	Triethylamine: ≤0.032%	Triethylamine: 0.002%	
	Tert-butyl methyl ether: ≤0.5%	Tert-butyl methyl ether: N.D	
<b>Peptide Assay</b>	≥80.0%	89.43%	
<b>Packaging and storage</b>	Store at a temperature of 2~8℃, protected from light.		
<b>Conclusion</b>	This batch of product complies with Enterprise Standard.		
<b>Prepared by/Date:</b> Yuchen Ding 2024.04.13	<b>Reviewed by/Date:</b> Jin Wu 2024.4.13	<b>Approved by/Date:</b> Lan Fang 2024.04.13 	