



## Certificate of Analysis

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<b>Product Name</b>		Impamorelin	<b>Catalog No.</b>	SMP0060
<b>Batch No.</b>		P23072802	<b>CAS No.</b>	170851-70-4
<b>Sequence</b>		Tyr-{Aib}-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile- $\{\alpha$ -Me-Leu}-Leu-Asp-Lys-{diacid-C20-gamma-Glu-(AEEA)-Lys}-Ala-Gln-{Aib}-Ala-Phe-Ile-Glu-Tyr-Leu-Leu-Glu-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH <sub>2</sub>		
<b>Manufacturing Date</b>		Apr,18,2024	<b>Received Date</b>	Apr,18,2024
<b>Report Date</b>		Apr,19,2024	<b>Retest Date</b>	Apr,17,2026
<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 50% aqueous acetonitrile		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	4731.33 $\pm$ 1.0		4732.08
<b>Clarity and color of solution</b>		Clear and colorless		Conforms
<b>Water</b>		$\leq$ 10.0%		8.2%
<b>pH</b>		6.0~9.0		7.24
<b>Acetic acid</b>		$\leq$ 0.5%		N.D
<b>Trifluoacetate ion</b>		$\leq$ 0.1%		N.D
<b>Sodium ion</b>		$\leq$ 3.0%		2.1%

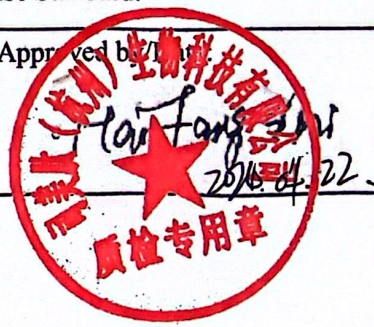




## Certificate of Analysis

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<b>Product Name</b>	Impamorelin	<b>Catalog No.</b>	SMP0060
<b>Batch No.</b>	P23072802	<b>CAS No.</b>	170851-70-4
<b>Sequence</b>	Tyr-{Aib}-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile- $\{\alpha$ -Me-Leu}-Leu-Asp-Lys- $\{\text{diacid-C20-gamma-Glu-(AEEA)-Lys}\}$ -Ala-Gln-{Aib}-Ala-Phe-Ile-Glu-Tyr-Leu-Leu-Glu-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH <sub>2</sub>		
<b>Manufacturing Date</b>	Apr,18,2024	<b>Received Date</b>	Apr,18,2024
<b>Report Date</b>	Apr,19,2024	<b>Retest Date</b>	Apr,17,2026
<b>Test Reference</b>	In-house specification/Protocol specification		
<b>Test Items</b>	<b>Standard Specification</b>	<b>Test Results</b>	
<b>Related Substances (HPLC)</b>	Any individual impurity: $\leq 1.0\%$ Total impurity: $\leq 2.0\%$	0.67% 1.76%	
<b>Purity</b>	$\geq 98\%$	98.24%	
<b>Bacterial endotoxin</b>	$< 10\text{EU/mg}$	Conforms	
<b>Residual solvents</b>	Methanol: $\leq 0.3\%$ Isopropanol: $\leq 0.5\%$ Acetonitrile: $\leq 0.041\%$ Methylene chloride: $\leq 0.06\%$ N,N-Dimethylformamide: $\leq 0.088\%$ Triethylamine: $\leq 0.032\%$ Tert-butyl methyl ether: $\leq 0.5\%$	Methanol: 0.010% Isopropanol: 0.031% Acetonitrile: 0.030% Methylene chloride: N.D N,N-Dimethylformamide: N.D Triethylamine: 0.002% Tert-butyl methyl ether: N.D	
<b>Peptide Assay</b>	$\geq 80.0\%$	88.05%	
<b>Packaging and storage</b>	Store at a temperature of 2~8°C, protected from light.		
<b>Conclusion</b>	This batch of product complies with Enterprise Standard.		
<b>Prepared by/Date:</b> Yuchen Ding 2024.04.19	<b>Reviewed by/Date:</b> Jin Wu 2024.04.22	<b>Approved by/Date:</b> Lai Fang 2024.04.22	



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