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CERTIFICATE OF ANALYSIS

Product Name	Thymosin beta 4 acetate		
CAS NO.	77591-33-4	Batch No.	2020072501
Molecular Formula	C ₂₁₂ H ₃₅₀ N ₅₆ O ₇₈ S	Manufacturing Date	2020/7/25
Reference Standard	Enterprise Standard	Testing Date	2020/7/28

No.	Item	Specification	Test result
1	Appearance	White or off-white powder	Conform
2	Solubility	Soluble in water	Conform
3	Water Content (Karl Fischer)	≤ 8.0%	7.20%
4	Acetic Acid (By HPLC)	≤ 10.0%	0.90%
5	Peptide Purity (By HPLC)	≥98.0%	99.60%
6	Related Substance (By HPLC)	Total Impurities(%)≤2.0%	0.40%
		Largest Single Impurity(%)≤1.0%	0.20%
7	Organic Solvent Residue	Acetonitrile≤0.041%	<0.041%
		Dichloromethane≤0.060%	<0.060%
		N,N-Dimethylformamide≤0.088%	<0.088%
8	Condition of Storage	2~8°C	
Conclusion	The product conforms with enterprise standard and qualified		

Inspector: Liu Jianshe

Checker: Pang Jinlong

Date: 2020.7.28

The product is for research or production use only, not for direct human use.

Olivia Wang