



Chengdu KaiJie Biopharm Co., Ltd.

KAIJIE

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Certification of Analysis

Product Name	Thymosin α1		
Molecular Formula	$C_{129}H_{215}N_{33}O_{55}$	CAS. No.	62304-98-7
Molecular Weight	3108.3	Bach No.	20100701
Storage	2 ~ 8°C	Manufacture Date	07/01/2010
Sequence	Ac-Ser-Asp-Ala-Ala-Val-Asp-Thr-Ser-Ser- Glu-Ile-Thr-Thr-Lys-Asp-Leu-Lys-Glu-Lys -Lys-Glu-Val-Val-Glu-Glu-Ala-Glu-Asn-OH		

	TEST	SPECIFICATION	RESULT
1	Appearance	White powder	White powder
2	Specific Optical Rotation ($c=0.5$, PH7.0 PBS)	-100.0 ~ -110.0 °	-109.22°
3	Water	≤ 5.0%	1.75%
4	Amino Acid Composition	±20 % of theoretical	Complies
5	Purity	≥ 96.0%	99.49%
6	Single Impurity	≤ 2.0%	0.27%
7	HAc% (by HPLC)	≤ 5.0%	4.82%
8	Assay (by anhydrous, acetic acid-free)	95.0%~105.0%	100.23%

Quality Control By ZhouzhongbingDate: 2010-08-25

Quality Assurance Department