Certificate of Analysis

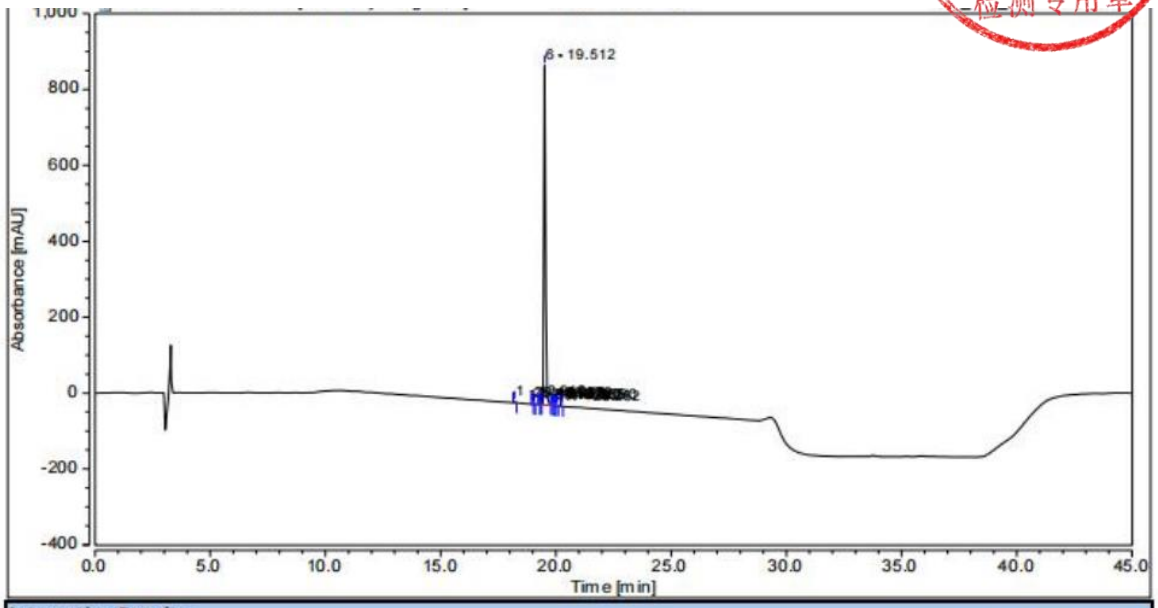
Product	**Thymosin β-4**	**CAS No.**	77591-33-4
Product No.	LJTB4-001	**Batch No.**	LJTB42026050601
Date of Mfg	2026/05/06	**Retest Date**	2028/05/05
Test Method	In-house	**Quantity**	2.32kg
Storage Conditions	Protected from light, sealed, store at -20℃±5℃		

Test	**Acceptance Criteria**	**Results**
Appearance	White or off-white Powder	White Powder
Purity	≥98.0%	99.09%
Trifluoroacetic acid	≤0.5%	ND
Related Substances	Max Single Impurity：≤0.5%	0.32%
	Total Impurities：≤2.0%	0.91%
Water content	≤8.0%	2.7%
Acetic Acid	≤15.0%	5.2%
Peptide Content	≥80.0%	91.5%
Residual Solvents	Methanol≤0.3%	ND
	MeCN≤0.041%	0.0016%
	DCM≤0.06%	ND
	DMF≤0.088%	ND
Elemental Impurities	As：≤1.5ppm	ND
	Cd：≤0.2ppm	ND
	Hg：≤0.3ppm	ND

	Pb：≤1.5ppm	ND
Microbial Limit	Total aerobic bacteria ≤ 100cfu/g	Conforms
	Mould & Yeast ≤ 100cfu/g	Conforms
Bacterial Endotoxin	≤10EU/mg	Conforms
Solubility	Freely soluble in water	Conforms
Conclusion	☑Meet the requirements ☐Do not meet the requirements	
Remark	**It is only supplied as chemical product.** **It is only for R&D use.**	

Reporter/Date:张洁 **20260510** **Approver/Date:** **202 0510**

HPLC：



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount n.a.
1		18.210	0.217	3.352	0.32	0.37	n.a.
2		18.992	0.019	0.338	0.03	0.04	n.a.
3		19.057	0.025	0.429	0.04	0.05	n.a.
4		19.273	0.010	0.173	0.02	0.02	n.a.
5		19.370	0.059	1.230	0.09	0.14	n.a.
6		19.512	67.360	893.348	99.09	98.85	n.a.
7		19.817	0.143	2.046	0.21	0.23	n.a.
8		19.865	0.045	1.039	0.07	0.11	n.a.
9		19.965	0.024	0.364	0.04	0.04	n.a.
10		20.040	0.022	0.354	0.03	0.04	n.a.
11		20.262	0.051	1.022	0.08	0.11	n.a.
Total:			**67.977**	**903.695**	**100.00**	**100.00**	