

# CERTIFICATION OF ANALYSIS

Thymosin beta 4 Powder (Synthetic)	CAS: 77591-33-4
Product No.:800034	Batch No.: 23072604
Date of Mfg: Jul 26, 2023	Date of Exp: Jul 25, 2025
Sequence: Ac-Ser-Asp-Lys-Pro-Asp-Met-Ala-Glu-Ile-Glu-Lys-Phe-Asp-Lys-Ser-Lys-Leu-Lys-Lys-Thr-Glu-Thr-Gln-Glu-Lys-Asn-Pro-Leu-Pro-Ser-Lys-Glu-Thr-Ile-Glu-Gln-Glu-Lys-Gln-Ala-Gly-Glu-Ser	

Test	Specification	Result
Appearance	White or off-white powder	White powder
Solubility	soluble in water	conforms
MS	4963.5 ± 1.0	conforms
Purity(HPLC)	NLT 98%	98.2%
Acetic acid	NMT 10.0%	4.6%
Water Content(Karl Fischer)	NMT 7.0%	3.4%
Peptide Content(N%)	NLT 80%	89.8%
Bacterial Endotoxins	Less than 50IU/mg	conforms
Assay(Anhydrous, acetic acid-free)	95~105%	97.7%

**Storage: In an air tight container, protected from light**

**Temperature :Short Term:2-8℃ ; Long Term:below-10℃**

Conclusion: the product complies with specification.

It is only supplied as chemical product.

Analysis :Janie.zhang  
Date :2023.07.26

Approved by : Christ.zheng  
Date :2023.07.26