

Version 1.1

Update: 12/27/2019

## CERTIFICATE OF ANALYSIS

### Product Information

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Product Name:	Thymosin $\beta$ 4, Human
Cat. No.:	Z02908
Lot No.:	R50072104
Storage Condition:	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.

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### Quality Results

Test Items	Specifications	Results
Physical Appearance	White Freeze-dried Powder	Conformed
Purity (SDS-PAGE)	>97%	Conformed
HPLC Purity	>97%	Conformed
Molecular Weight	4.9 $\pm$ 0.5KDa	Conformed
Biological Activity	0.5-10 $\mu$ g/ml	Conformed
Bacterial Endotoxin	<1.0 EU/ $\mu$ g	Conformed

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### Caution:

For laboratory use only. Not for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188

Certified by: *Dandan Yao*      Date: 04/22/2021

Quality Department

*For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.*