FREEDOM DIAGNOSTICS

Certificate of Analysis

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Client:	Bluum LLC
Accession #:	2611112020
Search Code:	Bluu2611112020
Received:	11/11/2026
Reported:	11/12/2026
Lot:	THY52609-149K

Sample Summary

Product:	**Thymosin Alpha-1 5mg**	Purity:	**98.18%**
Identity:	**Confirmed**	Net Content:	**5.36 mg**
Appearance:	**White Lyophilized Powder**		
Endotoxin Threshold:	**Pass**		

Analytical Results

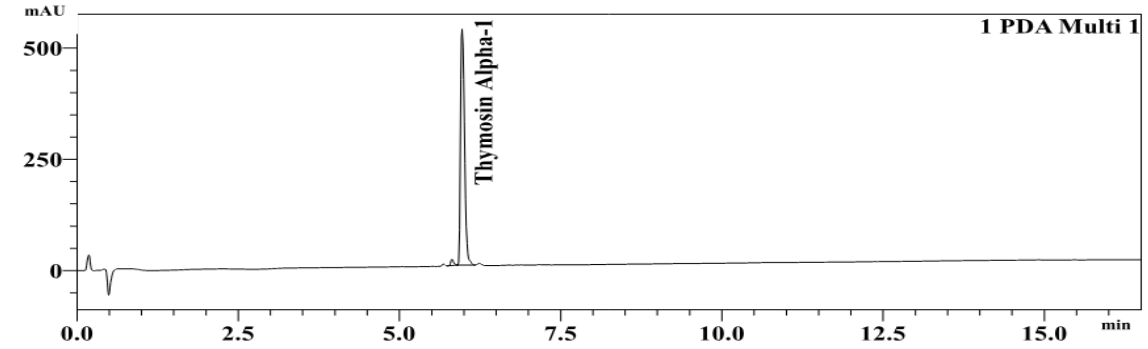
Test	Result
Identity (LC-MS)	**Thymosin Alpha-1**
Purity (HPLC-UV)	**98.18%**
Net Content	**5.36 mg**

Method: Endotoxin testing performed using Limulus Amebocyte Lysate assay in accordance with USP <85> under validated laboratory conditions.

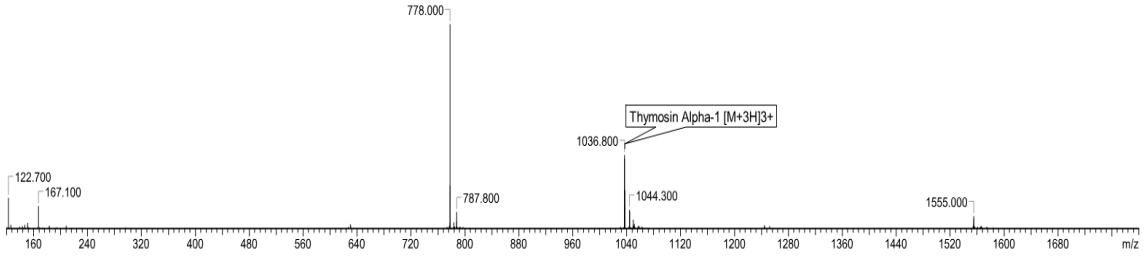
Endotoxin Replicate 1:	**Pass**	Assay Sensitivity: ≤0.05 EU/mL
Endotoxin Replicate 2:	**Pass**	Assay Sensitivity: ≤0.05 EU/mL

Method: HPLC with UV detection coupled with mass spectrometry (LC-MS).

Chromatogram



Mass Confirmation



Principal Chemist
CoA Template v3.1

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The peptide purity analysis reported here was conducted using LCMS/MS under standard laboratory conditions. This analysis is for informational purposes only and is specific to the sample(s) provided. The peptides tested are for research use only and are not approved for human, veterinary, diagnostic, therapeutic, or clinical use. Results should be interpreted by qualified professionals. Accuracy may be influenced by sample integrity, handling, and other experimental variables.