FREEDOM DIAGNOSTICS

Certificate of Analysis

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Client:	Halo Research Labs LLC
Accession #:	2610291298
Search Code:	Halo2610291298
Received:	10/29/2026
Reported:	11/2/2026
Lot:	BT1002

Sample Summary

Product:	**Wolverine 10mg**	Purity:	**Sample 1: 99.08%** **Sample 2: 99.00%**
Identity:	**Confirmed**	Net Content:	**Sample 1: BPC-157 – 5.43 mg** **Thymosin Beta-4 – 5.39 mg** **Sample 2: BPC-157 – 5.20 mg** **Thymosin Beta-4 – 5.17 mg**
Appearance:	**White Lyophilized Powder**		
Endotoxin Threshold:	**Pass**		
Microbial Analysis (PCR):	**Pass**		
Elemental Impurities (ICP-MS): As | Cd | Pb | Hg	**Pass**		
Fentanyl	**No Fentanyl Detected**		
Ph	**5.6**		

Analytical Results

Test	Result
Identity (LC-MS)	**Thymosin Beta-4/BPC-157**
Purity (HPLC-UV)	**99.04%**
Elemental Impurities (ICP-MS):	**Pass — Arsenic, Cadmium, Lead and Mercury below limits**
Net Content	**BPC-157 – 5.32 mg** **Thymosin Beta-4 – 5.28 mg**

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

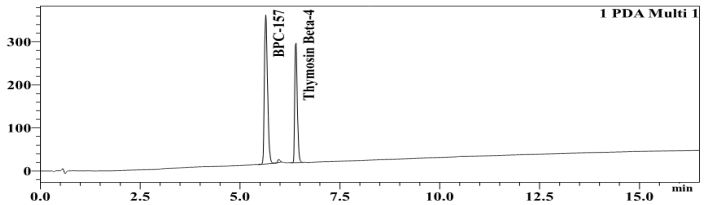
Endotoxin Replicate 1:	**Pass**	Assay Sensitivity: ≤0.05 EU/mL
Endotoxin Replicate 2:	**Pass**	Assay Sensitivity: ≤0.05 EU/mL

Method: Microbial detection performed using validated polymerase chain reaction (PCR)-based assay targeting common microbial contaminants.

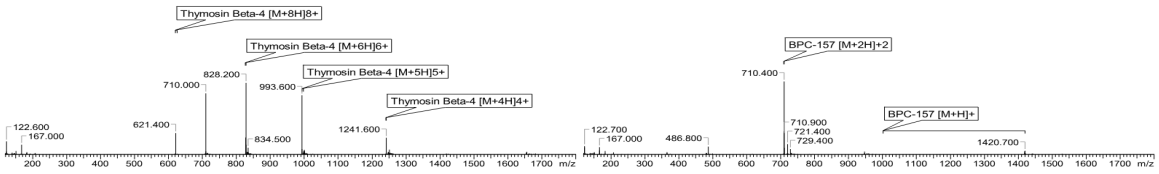
Microbial Analysis (PCR)	**No Detectable Microbial DNA**

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

Chromatogram



Mass Confirmation



Alex Johnson

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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.