

# Certificate of Analysis

## Product Information

**Product Name:** BPC-157 (Body Protection Compound 157)

**CAS Number:** 137525-51-0

**Molecular Formula:** C62H98N16O22

**Molecular Weight:** 1419.5 g/mol

**Appearance:** White to off-white lyophilized powder

**Product Name:** TB-500 (Thymosin Beta-4 fragment)

**CAS Number:** 77591-33-4

**Molecular Formula:** C212H350N60O67S

**Molecular Weight:** ~3108.7 g/mol

**Appearance:** White to off-white lyophilized powder

## Batch Information

**Batch / Lot Number:** BPC-TB-2025-002

**Quantity:** BPC-157: 10 mg | TB-500: 10 mg

**Date of Manufacture:** 02-Sep-2025

**Retest Date:** 02-Sep-2027

**Storage Conditions:** -20 °C, dry and protected from light

## Analytical Results

Test	Specification	Result	Method
Identity (Mass Spectrometry)	Consistent with theoretical mass	Confirmed for both peptides	ESI-MS
Purity (HPLC)	≥ 98.0 % (by area)	BPC-157: 99.2 %, TB-500: 99.0 %	RP-HPLC
Sequence Confirmation	As per peptide sequences	Confirmed	MS/MS, Edman degradation
Appearance	White to off-white lyophilized powder	White powder	Visual
Solubility	Soluble in sterile water (≥1 mg/mL)	Pass	Visual
Residual Solvent	≤ 0.5 %	<0.2 %	GC
Water Content (Karl Fischer)	≤ 5.0 %	BPC-157: 2.5 %, TB-500: 2.4 %	KF titration
Acetate Content	Report only	BPC-157: 5.0 %, TB-500: 5.1 %	Ion chromatography
Peptide Content	≥70 %	BPC-157: 74 %, TB-500: 75 %	Nitrogen analysis
Endotoxin	< 0.25 EU/mg	BPC-157: 0.08 EU/mg, TB-500: 0.07 EU/mg	LAL test
Microbial Limit Test	<100 CFU/g, no pathogens	Pass	USP <61>/<62>

## Compliance Statement

The above batch of **BPC-157 & TB-500** complies with the stated specifications.

This batch of **BPC-157 & TB500** meets all specified analytical and microbiological criteria and is suitable for **research use only**. Manufactured and tested under controlled conditions to ensure consistency, purity, and integrity.