



Certificate of Analysis

Research Use Only - Not For Human Use

IDENTITY

Product: Wolverine Blend 10 mg (BPC-157 5mg + TB-500 5mg)
CAS No: BPC-157: 137525-51-0; TB-500 (Thymosin Beta-4 fragment): 77591-33-4
PubChem CID: BPC-157: 9941957; TB-500/TB4: 16132378
Chemical Name: BPC-157 + TB-500 (Thymosin Beta-4 fragment)
MG: 10mg total

Physical and Chemical Properties

Molecular Formula	BPC-157 C ₆₂ H ₉₈ N ₁₆ O ₂₂ ; TB-500 ~C ₂₁₂ H ₃₅₀ N ₅₆ O ₇₈ S
Molecular Weight	BPC-157 1419.55 g/mol; TB-500 (TB4) 4963.49 g/mol
Chemical Structure	BPC-157: H-Gly-Glu-Pro-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val-OH; TB500: N-Acetyl-Leu-Lys-Lys-Thr-Glu-Thr-Gln

STORAGE

- Powder: -20°C 3 years ; 4°C 2 years ; 15°C 3 month
- In solvent: -80°C 6 months ; -2°C 1 month ; 10°C 1 week

Analytical Data

Attribute	Specification	Result
Appearance	White to off-white lyophilized solid powder	Conforms
Purity (HPLC)	≥ 99%	99.8%, 99.5%
Identity (MS)	Component masses consistent with expected	Conforms
Residual Solvents	Meets ICH limits	Conforms
Water Content	≤ 6%	Conforms

Conclusion: The product has been tested and complies with the given specifications. The product is intended for research purposes only and not for human consumption.

Vitalis Peptide Research

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