

# CERTIFICATE OF ANALYSIS

## 1. PRODUCT INFORMATION

Product Name	TB-500 Peptide
CAS Number	NA
Molecular Formula	NA
Form	Lyophilized powder
Molecular Weight	NA
Batch / Lot Number	PE20260201
Manufacturing Date	02/01/2026
Report Date	02/11/2026
Retest Date	01/31/2028
Quantity	10 mg
Storage Conditions	Light-proof, sealed, stored at -20°C ±5°C

## 2. GENERAL PROPERTIES

No.	Test Parameter	Specification	Result	Status
2.1	Appearance	White to off-white powder	Conforms	Pass
2.2	Solubility	Soluble in water	Conforms	Pass
2.3	Water Content	NMT 8.0%	3.7%	Pass
2.4	Acetic Acid	NMT 15.0%	3.1%	Pass
2.5	TFA (Trifluoroacetic Acid)	NMT 0.5%	0.02%	Pass

## 3. RESIDUAL SOLVENTS

No.	Test Parameter	Specification	Result	Status
3.1	Methanol (Methyl Alcohol)	NMT 0.3%	0.004%	Pass
3.2	Acetonitrile	NMT 0.041%	0.003%	Pass
3.3	N,N-Dimethylformamide (DMF)	NMT 0.088%	N.D.	Pass

## 4. RELATED SUBSTANCES (HPLC)

No.	Test Parameter	Specification	Result	Status
4.1	Maximum Single Impurity	NMT 1.0%	0.25%	Pass
4.2	Total Impurities	NMT 2.0%	0.53%	Pass
4.3	Purity (by HPLC)	NLT 98.0%	99.4%	Pass

## 5. BIOLOGICAL TESTING

No.	Test Parameter	Specification	Result	Status
5.1	Bacterial Endotoxins	NMT 10 EU/mg	Conforms	Pass

## 6. ASSAY

No.	Test Parameter	Specification	Result	Status
6.1	Peptide Content	NLT 85.0%	92.6%	Pass

## 7. CONCLUSION

The product tested complies with the specifications.

--- End of Certificate ---