



Cata Research

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CERTIFICATE OF ANALYSIS

Document Number:

COA-CR-TB-0526-01



PRODUCT NAME

TB500



BATCH/LOT NUMBER

CR-TB-0526



PACK SIZE

5mg

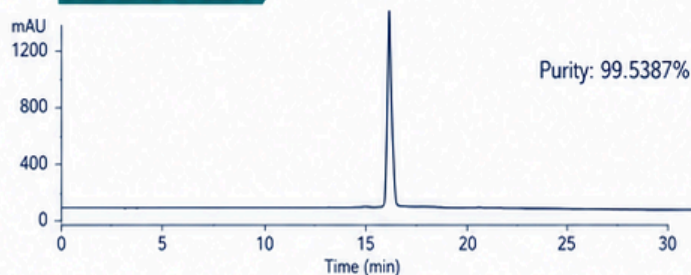


DATE OF ANALYSIS

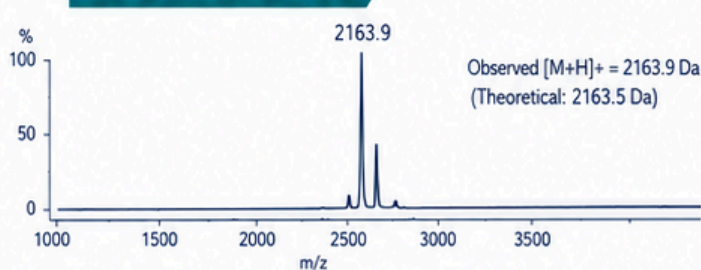
June 1, 2026

#	TEST	SPECIFICATION	RESULT	METHOD	STATUS
1.	Appearance	White to off-white lyophilized powder	Conforms	Visual Inspection	✓ PASS
2.	Identity (ESI-MS)	Mass matches theoretical (± 1.0 Da)	Observed $[M+H]^+ = 2163.9$ Da (Theoretical: 2163.5 Da)	ESI-TOF Mass Spectrometry	✓ PASS
3.	Purity (RP-HPLC 214nm)	$\geq 99.5\%$	99.5387%	RP-HPLC (214nm)	✓ PASS
4.	Purity (RP-HPLC 280nm)	$\geq 99.0\%$	99.4819%	RP-HPLC (280nm)	✓ PASS
5.	Total Impurities	$\leq 0.5\%$	0.4613%	RP-HPLC (Area %)	✓ PASS
6.	Single Largest Impurity	$\leq 0.15\%$	0.11%	RP-HPLC (Area %)	✓ PASS
7.	Aggregates (SEC-HPLC)	$\leq 0.5\%$	$< 0.05\%$	Size Exclusion HPLC	✓ PASS
8.	Peptide Content (Anhydrous)	$\geq 95.0\%$	96.5%	Amino Acid Analysis (AAA)	✓ PASS
9.	Water Content (Karl Fischer)	$\leq 5.0\%$	0.31%	Coulometric Karl Fischer Titration	✓ PASS
10.	Acetate Content	$\leq 10.0\%$	5.8%	Ion Chromatography	✓ PASS
11.	Residual Acetonitrile (ACN)	≤ 410 ppm	< 18 ppm	GC-HS	✓ PASS
12.	Residual DMF	≤ 880 ppm	< 12 ppm	GC-HS	✓ PASS
13.	Residual DCM	≤ 600 ppm	< 5 ppm	GC-HS	✓ PASS
14.	Heavy Metals (Total by ICP-MS)	≤ 20 ppm	< 0.4 ppm	ICP-MS	✓ PASS
15.	Bacterial Endotoxins	< 1.0 EU/mg	< 0.01 EU/mg	LAL	✓ PASS
16.	Bioburden (TAMC)	< 10 CFU/g	< 1 CFU/g	Plate Count (Aerobic)	✓ PASS
17.	Amino Acid Ratio (AAA)	Within $\pm 5\%$ of theoretical	Conforms	Amino Acid Analysis	✓ PASS
18.	Molecular Weight Confirmation	Theoretical: 2163.5 Da	Confirmed	ESI-TOF Mass Spectrometry	✓ PASS

RP-HPLC (214nm)



ESI-TOF MASS SPECTRUM



This product was tested by independent ISO-accredited laboratories located throughout North America. Full chromatographic data, mass spectra, and endotoxin reports are available upon request.

QC Release Authorized By:

CResearch

Date: June 1, 2026