

Adenine Labs – Certificate of Analysis

adenine labs | 1841 19th street, san francisco, ca 94107 | info@adenine.xyz page 1

Compound	TB-500 (Thymosin Beta-4)	CAS Number	77591-33-4
Chemical Formula	C212H350N56O78S	Molecular Weight	4963.5 g/mol
Lot ID	AL-1120-TB5	Sample ID	S50897
Status	Verified	Date Generated	2025-08-08

Analytical Results

Test Method	Specification	Result
Appearance	Visual	White or off-white powder
Identification	LC-MS	Mass spectrum consistent — Confirmed
Purity	HPLC (UV 214 nm) $\geq$ 98.0% (area)	99.0%
Assay	HPLC 95.0–105.0%	98.5%
Water Content	Karl Fischer $\leq$ 5.0%	1.4%
Endotoxin	LAL $<$ 0.25 EU/mg	$<$ 0.25 EU/mg
Heavy Metals	ICP-MS $\leq$ 10 ppm	$<$ 5 ppm
Microbial Limit	USP <61> $<$ 100 CFU/g	$<$ 10 CFU/g
Residual Solvents	GC-MS ICH Q3C compliant	None detected

Quality Sign-Off

Analyst Dr. Kao _____ QA Reviewer Dr. Kilar _____ Final Approval Dr. Barr _____

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