Analytical Formulations, Inc.
Premiere Consulting & Lab Services since 2008
Email: afi_sd@yahoo.com

- Summary Report -

Test Product: **Thymosin Alpha-1 10mg** **Manufacturer:** [redacted]
Client: [redacted] **Batch/Lot #:** **(see flag tag)**
Description: Vial with White Powder - Sealed with plastic Security Cap - Flag Tag attached at neck with Manufacture/Product Sku Number - PO and Expiration on Flag Tag.

COMPONENT	TEST	SPECIFICATION	RESULT
TA-1	**Qualitative ID** Lambda Max	TS λ_{max} is a match compared to its characteristic reference standard.*	**Matches** ∴ **Pass**
	Percent Purity Correlation Coefficient	NLT 98%* $r_{xy} = \frac{\sum_{i=1}^{n}(x_i - \bar{x}) \cdot (y_i - \bar{y})}{\sqrt{\sum_{i=1}^{n}(x_i - \bar{x})^2} \cdot \sqrt{\sum_{i=1}^{n}(y_i - \bar{y})^2}}$	**99.7%** ∴ **Pass**
	Quantitative Assay Beer-Lambert	NLT 95% label claim (mg/vial)* % = (A_{TS}/A_{STD}) x (C_{STD}/C_{TS}) x 100	**10.06mg** ∴ **Pass**
	Heavy Metals Total Quantity	NMT 150ppb/vial Heavy Metals (including Pb, Cd, Hg, Ni, Fe & Co)	**<20ppb** ∴ **Pass**
	TAMC (Total Aerobic Microbial Counts)	NMT 1,000 CFU Aerobic/Coliform incubated 48hrs @ 37°C**	**0** ∴ **Pass**
	TYMC (Total Yeast and Mold Counts)	NMT 100 CFU/ml Yeast & Molds incubated for 48hrs @ 30°C**	**0** ∴ **Pass**

** Tested on a Jenway 6715 UV/Vis Spectrophotometer.*
*** Based on Substances For Pharmaceutical Use compendial SOP.*

Performing Analyst **Initial & Date:** 14 January 2026

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