Analytical Formulations, Inc.
Premiere Consulting & Lab Services since 2008
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- Summary Report -

Test Product: **Semax 10mg** **Manufacturer:** **YPB Labs**
Client: **PureMD Labs** **Batch/Lot #:** 20251219L04XA2S10
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
Semax	**Qualitative ID** Lambda Max	TS λ_{max} is a match compared to its characteristic reference standard.	**Matches** ∴ **Pass**
	Percent Purity Correlation Coefficient	NLT 98% $r_{xy} = \frac{\sum_{i=1}^{n}(x_i - \bar{x}) \cdot (y_i - \bar{y})}{\sqrt{\sum_{i=1}^{n}(x_i - \bar{x})^2} \cdot \sqrt{\sum_{i=1}^{n}(y_i - \bar{y})^2}}$	**99.9%** ∴ **Pass**
	Quantitative Assay Beer-Lambert	NLT 95% label claim (mg/vial) % = (A_{TS}/A_{STD}) x (C_{STD}/C_{TS}) x 100	**10.35mg** ∴ **Pass**
	Heavy Metals Total Quantity	NMT 150ppb/vial Heavy Metals (including Pb, Cd, Hg, Ni, Fe & Co)	**<10ppb** ∴ **Pass**
	TAMC (Total Aerobic Microbial Counts)	NMT 1,000 CFU* Aerobic/Coliform Incubated for 48hrs @ 37°C	**0** ∴ **Pass**
	TYMC (Total Yeast and Mold Counts)	NMT 100 CFU* Yeast & Molds Incubated for 48hrs @ 30°C	**0** ∴ **Pass**

Tested on a Jenway 6715 UV/Vis Spectrophotometer.
*Based on Substances for Pharmaceutical Use compendium.

Performing Analyst **Initial & Date:** 21 March 2026

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