

# CERTIFICATE OF ANALYSIS

Product Description      HYGROMYCIN B, FREE BASE (POWDER)  
FROM *STREPTOMYCES HYGROSCOPICUS*  
Product Number        H397  
Lot Number              HHT0397060  
Storage Temperature    2-8°C, Protect from Moisture & Sunlight  
Molecular Weight       527.5  
Formula                  C<sub>20</sub>H<sub>37</sub>N<sub>3</sub>O<sub>13</sub>  
CAS Number             31282-04-9

## Physicochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 50 mg/mL	Passes
pH	Under Development	10.8
Powder Appearance Color* Texture	White to Tan Fine Powder	PM-1 White Fine Powder
Solution Appearance Clarity Color	Clear Slight Yellow to Tan	Clear Slight Yellow
FTIR	Conforms to Structure	Passes
Potency	≥ 900 Units (U)/mg	1365 U/mg
Purity (HPLC)	≥ 90.0%	95.50%
Water Content	For Information Only	5.60%


\*Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

The material described in this certificate was produced by *Streptomyces hygroscopicus*. No animal- or plant-derived components were used in the manufacture of this product.

**PhytoTech Labs Inc. provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

Date of Release: 01-April-2025

Recommended Shelf-Life Date: April 2030

Prepared by:   
Alex Lambert  
Lead Quality Control Laboratory Technician