



CERTIFICATE OF ANALYSIS

HYGROMYCIN B POWDER, *FREE BASE*

Catalogue No: 400-141-**

Lot No: 400141031

Exp: 09/2025

MSDS: Available upon request

Shipping: Ambient

Storage: Powder should be store refrigerated between 2-8°C.

Formula: C₂₀H₃₇N₃O₁₃

M.W.: 527.52

Cas: 31282-04-9

TEST	SPECIFICATION	RESULTS
Appearance	Off white to light yellow powder	Creamy color powder
Potency assay	INFO	1270 units/mg
Purity by HPLC	> 90 %	94.4
Specific Rotation	INFO	+22.6°
Water	INFO	5.9%
Solubility	Clear and yellowish solution (50mg/ml) H ₂ O	Meet specification

ADDITIONAL INFORMATION:

STABILITY: Working concentrations have undetermined stability (based on dilution factor), but will show drastically decreased shelf life.

PREPARATION: Suggested working concentration: 25-1,000µg/mL. Hygromycin B is a selection antibiotic used for the selection and the maintenance of eukaryotic cells transfected with the *E. coli* Hygromycin resistance gene. The effective killing concentration of this antibiotic will vary with the cell type, media, growth conditions, density, and the cell's metabolic rate and position in the cell cycle. When using Hygromycin B in a new cell system, a full dose curve is suggested, and with each new lot of Hygromycin B several points on that curve should be retested, as the potency may not exactly correlate to your system.