

**Product Name:** Hygromycin B  
**Catalog Number:** J60681.MD

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**CAS Number:** 31282-04-9  
**IUPAC Name:** (3'R,3aS,4S,4'R,5'R,6R,6'R,7S,7aS)-4-[[[(1R,2S,3R,5S,6R)-3-amino-2,6-dihydroxy-5-(methylamino)cyclohexyl]oxy]-6'-[(1S)-1-amino-2-hydroxyethyl]-6-(hydroxymethyl)-tetrahydro-3aH-spiro[[1,3]dioxolo[4,5-c]pyran-2,2'-oxane]-3',4',5',7-tetrol  
**Molecular Formula:** C<sub>20</sub>H<sub>37</sub>N<sub>3</sub>O<sub>13</sub>  
**Molecular Weight:** 527.52  
**InChI Key:** GRRNUXAQVGOGFE-KPBUCVLVSA-N  
**SMILES:** CN[C@H]1C[C@@H](N)[C@H](O)[C@@H](O[C@@H]2O[C@H](CO)[C@H](O)[C@@H]3OC4(O[C@H]23)O[C@H]([C@@H](N)CO)[C@H](O)[C@@H](O)[C@H]4O)[C@@H]1O  
**Synonym:** hygromycin B

## Product Specification

**Appearance (Color):** Cream to pale brown  
**Form:** Powder  
**Assay (HPLC):** ≥ 90.0%  
**Water Content (Karl Fischer Titration):** 15.0%  
**Potency:** ≥ 900 units/ mg  
**Solution Test:** Solubility (50mg/ml in water): Clear and pale yellow to pale brown

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**Date Of Print:** 04/28/2025

*Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.*