

Product: **Blasticidin Powder**

Catalog #: 400-165P

BLASTICIDIN DATA

Description: Blasticidin S is a peptidyl nucleoside antibiotic isolated from the culture broth of *Streptomyces griseochromogenes*. It is used as a selection agent for transformed cells that contain the resistance genes *bls*, *bsr*, or *BSD*. Blasticidin S has also been used to study protein synthesis at the level of peptide bond formation.

Purity: ≥98%

Form: Powder

CAS #: 3513-03-9

Chemical Formula: $C_{17}H_{26}N_8O_5 \cdot HCl$

Molecular Weight: 422.4

Solubility: Soluble in water. Not soluble in organic solvents. Maintain solution pH of 7.0 or lower when making stock solution.

Storage: Store at 2 – 8°C. Small volume aliquots can be stored for short-term at 2-8°C and at -20°C for long-term. Avoid multiple freeze-thaw cycles.

Stability: Stock solutions are stable for 1-2 weeks at 2-8°C and up to 6-8 weeks at -20°C.

Handling: Blasticidin S is a hazardous compound. Avoid contact with eyes, skin and clothes, harmful if swallowed

Preparation: Prepare Blasticidin 5-10 mg/ml stock solution by using sterile water and dissolving Blasticidin powder, and sterile-filtering the solution.

Blasticidin Selection

E. Coli Selection: 50-100 µg/ml

Yeast Selection: 25-300 µg/ml

Mammalian Cell Selection: 2-10 µg/ml

For further manufacturing or laboratory use. Not for human or animal consumption.