



## Puromycin, Powder 100 mg LTTran08

### General Information

Puromycin is an aminonucleoside antibiotic used for selection of mammalian cell lines expressing the puromycin resistance gene. The antibiotic is active against gram positive bacteria and various animal and insect cells by inhibiting the peptidyl transfer on prokaryotic and eukaryotic ribosomes. Transfected cells become resistant against Puromycin by expression of the pac gene encoding a puromycin N-acetyl transferase.

Puromycin is used as a selection antibiotic for mammalian cells in the concentration range of 0.5 – 10 µg/ml. For puromycin resistant bacteria that have been transformed with the pac gene, use a concentration of 100–125 µg/ml.

### Applications

- Selection antibiotic
- Spectrum: gram positive bacteria, various animal and insect cells
- Selection of cell types harbouring plasmids carrying puromycin resistance gene
- Can be used as an alternative to the neomycin system for transfection experiments

### Features

- Aminoglycoside antibiotic
- Inhibition of peptidyl transfer
- High activity
- High purity

Appearance	White or off-white powder
CAS No.	58-58-2
Storage and shelf life	Store at +2°C to +8°C protected from light.
Shipping conditions	Ambient
Working concentration	Recommended final concentration: 0.5 – 10 µg/ml for mammalian cell selection.

### Instructions for Use

#### Preparing and Storing Stock Solutions

Puromycin is soluble in water at 50 mg/ml yielding a clear, colorless to faint yellow solution. The stock solution may be passed through a 0.22 µm filter and stored in aliquots at -20°C

### Precautions and Disclaimer

This product is for research use only.