

## X-gal

Cat. No. GF201

Concentration: 20 mg/ml

Storage: at -20°C in dark for one year

### Description

X-gal is a colorless substrate of  $\beta$ -galactosidase which hydrolyzes X-gal to yield an intense blue precipitate. It is commonly used with IPTG (GF101) to detect  $\beta$ -galactosidase activity in cloning applications for blue/white screening to differentiate recombinants from non-recombinants.

### Applications

- Blue/white screening to differentiate recombinant (white) from non-recombinant (blue) colonies
- Colorimetric assay based on lacZ reporter gene expression in transfected eukaryotic cells
- Immunoblotting and immunocytochemical assays based on  $\beta$ -galactosidase activity

FOR RESEARCH USE ONLY