

Product Information

5-BROMO-3-INDOLYL- β -D-GALACTOPYRANOSIDE (Bluo-Gal) Molecular Biology Reagent

Product No. **B 2904**
Store below -20°C

Product Summary

Suitable for identification of lac^+ bacterial colonies
Mol. Wt. 374.2

Stock Solution

10%(w/v) 5-Bromo-3-indolyl- β -D-galactopyranoside in dimethylformamide (100 mg/ml). Store at $0-5^{\circ}\text{C}$ and protect from light. Sterilization is not required.

Comments

For optimal performance:

1. Media should be pH 7.0-8.0.
2. 5-Bromo-3-indolyl- β -D-galactopyranoside should be added to media after it is cooled below 55°C .

Suitability Assay

Two strains of *E. coli* were tested, one lac^+ (ESC 206 containing pTZ 18R) and one lac^- (JM 101 (ESC 157)). An α -complementation assay was performed by adding $40\ \mu\text{l}$ of a stock solution of 5-bromo-3-indolyl- β -D-galactopyranoside (20 mg/ml in dimethylformamide) and $10\ \mu\text{l}$ of IPTG solution (100 mM in water) to two LB amp^+ and two LB amp^- plates. The plates were then inoculated with the appropriate bacteria. The ESC 206 containing pTZ 18R strain was plated on LB amp^+ plates. The JM 101 (ESC 157) strain was plated on LB amp^- plates. The plates were incubated at 37°C for 24-48 hours. The ESC 206 containing pTZ 18R cells produced blue colonies within 24 hours and the JM 101 cells produced only white colonies after 48 hours.

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