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## Product Information

### 5-BROMO-4-CHLORO-3-INDOLYL b-D-GALACTOPYRANOSIDE

#### Molecular Biology Reagent

(X-Gal)

Product No. **B9146**

Store below 0 °C

#### Preparation Instructions

10% (w/v) X-Gal in dimethylformamide (100 mg/ml), store at -20 °C and protect from light. Sterilization is not required. X-Gal should be added to media after media is cooled below 55 °C.

#### Product Profile

Suitable for identification of *lac*<sup>+</sup> bacterial colonies. X-Gal produces a blue color in *lac*<sup>+</sup> colonies.

#### Suitability Assay

Two strains of *E. coli* were tested, one *lac*<sup>+</sup> (ESC 206) with pTZ 18R plasmid and one *lac*<sup>-</sup> (JM 101 (ESC 157)).

1 x 10<sup>5</sup> cells of each strain were mixed in 3 ml top agar containing 0.33 mM IPTG, 330 µg/ml X-Gal and for ESC 206 cells, 100 µg/ml ampicillin. The top agar was poured onto LB broth base-agar plates for JM 101 cells and LB broth base-agar plates with 100 µg/ml ampicillin for ESC 206 cells. The plates are incubated at 37 °C for 24-48 hours.

ESC 206 cells produced light blue colonies within 48 hours and the JM 101 cells produced only white colonies within 48 hours.

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