



X-Gal (5-bromo-4-chloro-3-indolyl- β -D-galactopyranoside)

For colorimetric detection of β -galactosidase enzyme activity

Product Contents

X-Gal	
Catalog no.	129931
X-Gal	1 g
Product Sheet	1

Storage Conditions

X-Gal should be stored immediately upon receipt at -20°C .

Product Description

QIAGEN X-Gal is a highly pure molecular biology grade chemical for colorimetric detection of β -galactosidase activity. It is commonly used for "blue/white screening" of bacterial colonies to distinguish bacterial or phage clones after transformation experiments (1). In combination with suitable bacterial cloning vectors, host strains, and IPTG, X-Gal provides an easy way to distinguish between positive and negative clones after transformation.

QIAGEN X-Gal is supplied as a white crystalline powder, molecular weight 408.6.

Quality Control

In accordance with QIAGEN's ISO-certified Quality Management System, each lot of X-Gal is tested against predetermined specifications to ensure consistent product quality.

Product Use Limitations

X-Gal is intended for research use. No claim or representation is intended to provide information for the diagnosis, prevention, or treatment of a disease.

Safety Information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDSs). These are available online in convenient and compact PDF format at www.qiagen.com/ts/msds.asp where you can find, view, and print the MSDS for each QIAGEN kit and kit component.

24-hour emergency information

Emergency medical information in English, French, and German can be obtained 24 hours a day from:

Poison Information Center Mainz, Germany

Tel: +49-6131-19240

Procedure

Preparation of stock solution

Dissolve X-Gal in a suitable glass or plastic vial to a final concentration of 20 mg/ml in 100% DMF (dimethylformamide), not provided. Store the stock solution at -20°C in the dark. Discard the stock solution if the color changes significantly.

Handling

X-Gal should be used at a final concentration of 40–50 $\mu\text{g}/\text{ml}$ in plate and top agar. Alternatively, spread 40–100 μl of a 20mg/ml stock solution (800–2000 μg) onto the surface of an agar plate and allow to dry before inoculating with bacterial culture (1).

Reference

1. Sambrook, J. and Russell, D.W. (2001) Molecular cloning: a laboratory manual, 3rd ed., Cold Spring Harbour Laboratory Press.

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