

DATA SHEET

Version: 2

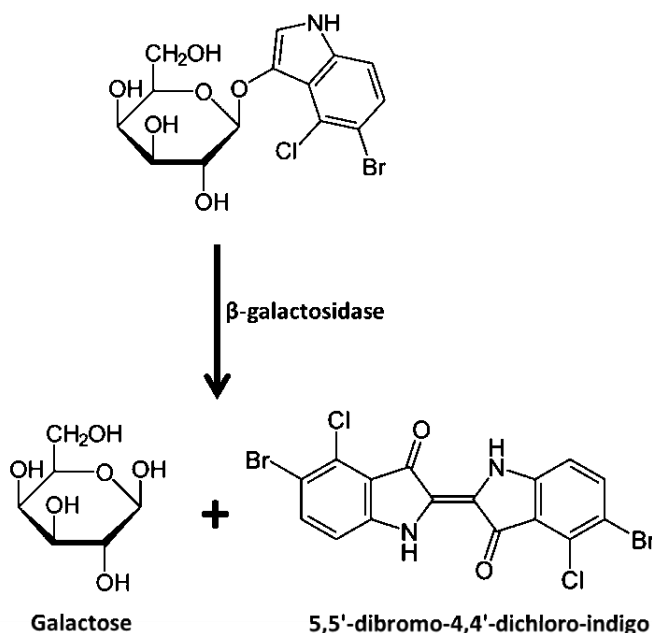
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1. Identification

Product name	X-Gal
	1g
Cat. No	C0043

2. Description

X-Gal (5-bromo-4-chloro-3-indolyl- β -D-galacto-pyranoside) is a chromogenic substrate for beta-galactosidase. β -Galactosidase cleaves the substrate and releases colorless galactose and 5-Bromo-4-chloro-3-indoxyl (X). The indoxyl will be oxidized to the insoluble 5,5'-dibromo-4,4'-dichloro-indigo, forming an intense blue precipitate.



3. Specifications

- **CAS Number:** 7240-90-6
- **Chemical Formula:** C₁₄H₁₅BrClNO₆
- **Molecular Weight:** 408.63
- **Purity (HPLC)**(on dry basis): >99.0%
- **Purity (TLC):** single spot
- **Water content** (Karl Fischer): <1%
- **Melting point:** 110 – 114 °C
- **Identity (IR):** conforms to structure
- **Solubility (5% w/v, DMF):** soluble



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Canvax Reagents, S.L.U.
Luis de Mercado Street, 19
Boecillo Technological Park
47151, Boecillo
Valladolid, Spain.

Tlf: +34 983 54 85 63
info@canvaxbiotech.com

www.canvaxbiotech.com

4. Storage specifications

Upon receipt and for long-term use, store the powder in a tightly closed and desiccated container at -20°C. X-Gal is stable for at least 2 years at -20°C if stored properly.

Preparation of a 20 mg/mL stock solution in 100% dimethylformamide (DMF). Store the stock solution at -20°C in the dark. Discard the stock solution if the colour changes significantly.

5. Applications

X-Gal, in conjunction with IPTG, is used to detect β -galactosidase activity to differentiate recombinants from nonrecombinants in cloning experiments using vectors containing the lacZ or lacZ α -peptide gene.

6. Further information

Product Use Limitations This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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