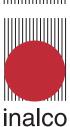
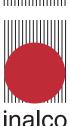
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Email: sales@inalcopharm.com





## DATA SHEET enzyme substrate

## **INALCO PHARMACEUTICALS**

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## 5-BROMO-3-INDOLYL-β-D-GALACTOPYRANOSIDE

(BLUO-GAL)

Inalco code 1758-0750

C.A.S. R.N. [97753-82-7]

**Applications** Substrate for  $\beta$ -Galactosidase that is converted, by the enzyme, into an insoluble indigo-

blue chromophore, darker than the one released by X-Gal. In histological applications, Bluo-Gal produces a precipitate in the form of fine birefringent crystals which, upon microscopic examination under polarized light, emit a strong signal consisting of yellow reflected light, resulting in greatly enhanced sensitivity and better morphological resolution as compared with X-Gal. It is also used in Lac gene detection systems, in immunoblotting and immunocytochemical assays.

Formula C<sub>14</sub>H<sub>16</sub>BrNO<sub>6</sub>

374.2 Molecular Weight

**Appearance** White or almost white powder

Purity (TLC) ≥ 98%

Specific Rotation  $[\alpha]^{20}$  -34° ± 2 (c=1 in DMF/H<sub>2</sub>O 1:1)

Water Content (K.F.) ≤ 1%

Solubility Clear (2% in DMF)

Conforming to the structure <sup>1</sup>H-NMR

Storage Store at 4° C; protect from light and humidity.

For long term storage: - 20° C.

Toxicity Toxicity unknown; avoid exposure.

References: Histochemistry, 102(6), 477-81 (1994)

Markaryan, A.N., et al., Bioorg. Khim., 13(2), 263-5 (1987), Russian Laton, R.B., et al., Biopolim Klekta 5 (4), 106-108 (1989), Russian

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