

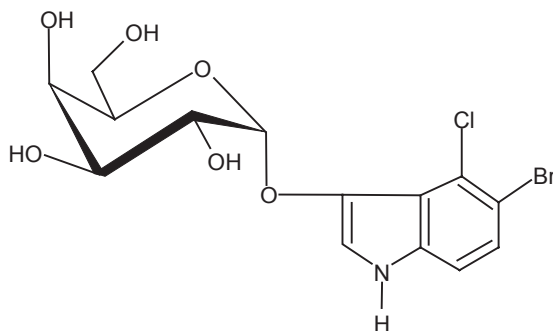


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DATA SHEET
enzyme substrate

5-BROMO-4-CHLORO-3-INDOLYL- α -D-GALACTOPYRANOSIDE

(X- α -GAL; X- α -D-GALACTOSIDE)



Inalco code	1758-0200
C.A.S. R.N.	[107021-38-5]
Applications	Substrate for α -Galactosidase that is converted, by the enzyme, into an intense indigo-blue chromophore (615 nm). It is used for differentiating alpha-Galactosidase positive yeast strains or bacteria (e.g. bifidobacteria). It has been used in histochemistry for the detection of enzyme activity in tissue with a light microscope.
Formula	$C_{14}H_{15}BrClNO_6$
Molecular Weight	408.6
Appearance	White or almost white powder
Purity (TLC)	$\geq 98\%$
Specific Rotation	$[\alpha]_D^{20} +146^\circ \pm 3$ (c=1 in DMF/H ₂ O 1:1)
Water Content (K.F.)	$\leq 1\%$
Solubility	Clear (2% in DMF)
¹ H-NMR	Conforming to the structure
Storage	Store at 4° C; protect from light and humidity. For long term storage: -20° C.
Toxicity	Toxicity unknown; avoid exposure.

References:	D'Amore, T., et al., J. Am. Soc. Brew. Chem., 51(4), 185-7 (1993) Gossrau, Reinhart, et al., Acta Histochem., 85(2), 213-21 (1989) Min, Hae Ki, et al., Han'guk Nonghwa Hakhoechi, 36(3), 191-6 (1993), Korean Tubb, Roy S., et al., J Inst. Brew., 92(6), 588-90 (1986)
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