

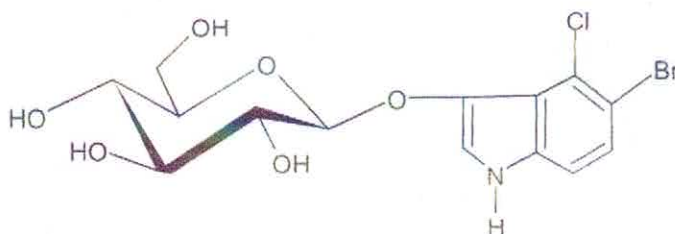


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DATA SHEET
enzyme substrate

5-BROMO-4-CHLORO-3-INDOLYL- β -D-GLUCOPYRANOSIDE
(X-GLUCOSIDE)



Inalco code	1758-0500
C.A.S. R.N.	[15548-60-4]
Applications	Substrate for β -Glucosidase that, upon enzymatic action, renders an insoluble indigo-blue chromophore (615 nm.) It is used as an indicator-probe in histochemistry and in culture media to detect β -Glucosidase positive organisms.
Formula	$C_{14}H_{15}BrClNO_5$
Molecular Weight	408.6
Appearance	White or almost white powder
Purity (TLC)	$\geq 98\%$
Specific Rotation	$[\alpha]_D^{20} -89.0^\circ \pm 2$ (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 hold at -20° C under dry inert gas.
Toxicity	Toxicity unknown; avoid exposure.
References:	Horwitz, J.P., et al., Carbohydr. Res. 9, 305 (1969) Horwitz, J.P., et al., J. Med. Chem. 7, 574 (1964) Lojda, Z., et al., Histochemie, 34, 361 (1973)