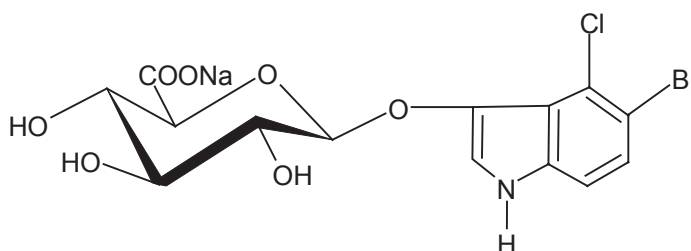




**INALCO PHARMACEUTICALS**  
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**DATA SHEET**  
enzyme substrate

**5-BROMO-4-CHLORO-3-INDOLYL- $\beta$ -D-GLUCURONIDE, Sodium Salt**  
(X-GLUCURO, SODIUM SALT)



Inalco code	1758-0700
C.A.S. R.N.	[129541-41-9]
Applications	Substrate for $\beta$ -Glucuronidase. It is converted by the enzyme into an intense blue precipitate. It is used for the detection of the GUS gene in bacterial colonies, e.g. <i>Escherichia coli</i> , or for histochemical applications.
Formula	$C_{14}H_{12}BrClNO_7Na$
Molecular Weight	444.6
Appearance	White or almost white powder
Purity (TLC)	$\geq 98\%$
Specific Rotation	$[\alpha]_D^{20} -109^\circ \pm 2$ (c=1 in DMF/H <sub>2</sub> O 1:1 - dry basis)
Water Content (K.F.)	$10.8\% \pm 1\%$
Solubility	Clear (2% in DMF)
<sup>1</sup> H-NMR	Conforming to the structure
Storage	Store at 4° C; protect from light and humidity. For long term storage hold at -20° C.
Toxicity	Toxicity unknown; avoid exposure.

References: Frampton, E.W., et al., J. Food Protection, 51, 402 (1988)  
Jefferson, R.A., et al., EMBO J., 6, 3901 (1987)  
Jefferson, R.A., et al., Proc. Natl. Acad. Sci., 83, 8447 (1986)  
Watkins, et al., Appl. Environ. Microbiol., 54, 1874-1875 (1988)