



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

Certificate of Analysis

Catalogue Number	BIO-088
Product	5-Bromo-4-chloro-3-indolyl-α-D-galactopyranoside
Lot Number	000475-119-114 5-Bromo-4-chloro-3-indolyl- α -D-galactoside 5-Bromo-4-chloro-3-indoxyl- α -D-galactopyranoside
CAS Number	107021-38-5
Molecular Formula	$C_{14}H_{15}BrClNO_6$
Molecular Weight	408.63
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Appearance	White powder
Solubility	Clear and colorless solution (2% DMF)
Water Content (Karl Fisher)	0.2%
Optical Rotation	$[\alpha]_D^{20} = +145.5^\circ$ (C=1, DMF:H ₂ O=1:1)
¹ H NMR	Conforms to structure
Purity by TLC	> 98%
Application	Substrate for α -Galactosidase that is converted, by the enzyme, into an intense indigo-blue chromophore (615 nm).
Storage	Store at -20 °C