

# **DENVILLE** **SCIENTIFIC INC.**

## **Certificate of Analysis**

**Description:** 5-Bromo-4-Chloro-3-Indolyl- $\beta$ -D-Galactopyranoside (X-GAL)

**Catalogue No:** CX3000-3

**Lot No:** P1/413/011

**Formula:** C<sub>14</sub>H<sub>15</sub>BrClNO<sub>6</sub>

**Molecular Weight:** 408.61

<b>Tests</b>	<b>Specifications</b>	<b>Results</b>
<b>Appearance</b>	White Powder	Conforms
<b>Assay</b> (HPLC)	≥98%	99.4%
<b>Water</b> (KF)	≤1%	0.1%
<b>Optical rotation</b> (C=1, DMF :H <sub>2</sub> O 1;1)	-62° ± 2	-61.0°
<b>Purity</b> (TLC)	Single spot ≥99%	>99%
<b>Solubility</b> (Sol. 2% DMF)	Clear and colourless solution	Conforms
<b><sup>1</sup>H-NMR</b>	Conforming to the structure	Conforms
<b>Storage:</b>	Ships on blue ice. Store at 4°C or -20°C for Long-term storage.	
<b>Manufacture date:</b>	25 January 2011	
<b>Expiry date:</b>	25 January 2014	
<b>Despatch date:</b>	2/12/11	
<b>Raised by: SC</b>	<b>Checked by: MR</b>	