

## CERTIFICATE OF ANALYSIS

PRODUCT NAME.	X-Gal (5-Bromo-4-Chloro-3-Indolyl-β-D-Galactopyranoside)
CAS NO.	7240-90-6
BATCH NO.	26/MFM/3240
MANUFACTURING DATE:	27 <sup>th</sup> November 2025
EXPIRY DATE:	27 <sup>th</sup> November 2028
MOLECULAR FORMULA:	C <sub>14</sub> H <sub>15</sub> BrClNO <sub>6</sub>
MOLECULAR WEIGHT:	408.6

TESTS	SPECS	RESULTS
Description	White Powder	Complies
Solubility	Soluble (2% dimethylformamide) (Clear, colourless solution)	Complies
H-NMR	Conforming to the structure	Complies
Identity – IR Spectrum	Conform	Complies
Moisture Content by KF	Not more than 1.0% w/w	0.2%
Purity (HPLC)		99.2%
Optical Rotation	(C=1, DMF:H <sup>2</sup> O=1:1)	-61.6°
Assay (HPLC)	Not less than 98.00% w/w	98.1%

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3<sup>rd</sup> February 2026