

Certificate of Analysis

Date of Testing: 2025-08-28 09:29:04

Date of Next Testing: 2027-08-18 09:29:04

Product Name: **5-Bromo-4-chloro-3-indolyl β -D-galactopyranoside (X-Gal)**

CAS Number: 7240-90-6

Specifications & Purity: $\geq 98\%$

Lot #: H2518714

SKU #: **X108836**

Version: **2**

Analysis #: **542121**

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.48000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in DMF})$	-72--60 (°)	-60.10 °
Appearance (X108836)	White or off-white powder	White or off-white powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Soluble in DMF(5% w/v), Colorless to Faint Green-Yellow, Clear	Pass	Pass



John Su
QA & QC Manager