

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-31 11:26:12

Date of Next Testing: 2025-05-20 11:26:12

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

CAS Number: 7240-90-6

Specifications & Purity: $\geq 98\%$

Lot #: E2324768

SKU #: **X108836**

Version: **2**

Analysis #: **219295**

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

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.60100 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in DMF})$	$-72--60 (^{\circ})$	-62.97500°
Appearance (X108836)	White or off-white powder	White or off-white powder
beta-Galactosidase detection test	to pass test	to pass test
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in DMF/MeOH (1/1) , Colorless to Faint Green-Yellow, Clear, 50 mg/ml	pass	Pass



John Su
QA & QC Manager