

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-04 17:09:09  
Date of Next Testing: 2025-07-03 17:09:09  
Product Name: **X-Gal (5-bromo-4-chloro-3-indolyl- $\beta$ -D-galactopyranoside)**  
CAS Number: 7240-90-6  
Specifications & Purity: Ultra Pure Grade  
Lot #: F23271062  
SKU #: **X274331**  
**Analysis: 247437**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.62000%
Specific Rotation $[\alpha]_{20/D}(0.1\%, 50\% \text{ DMF})$	-64--56 (°)	-61.77600°
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility (2%, DMF)	Pass	Pass



John Su  
QA & QC Manager