

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-06-02 11:20:42

Date of Next Testing: 2024-05-22 11:20:42

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

CAS Number: 7240-90-6

Specifications & Purity:  $\geq 98\%$

Lot #: E2230023

SKU #: **X108836**

Version: **2**

Analysis #: **045189**

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

| Parameter                                                                       | Limit Values              | Result                    |
|---------------------------------------------------------------------------------|---------------------------|---------------------------|
| Purity(HPLC)                                                                    | 98-100 (%)                | 98.16270 %                |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in DMF})$                         | -72--60 (°)               | -60.76500 °               |
| Appearance (X108836)                                                            | White or off-white powder | White or off-white powder |
| beta-Galactosidase detection test                                               | to pass test              | to pass test              |
| Solubility in DMF/MeOH (1/1) , Colorless to Faint Green-Yellow, Clear, 50 mg/ml | pass                      | Pass                      |
| Proton NMR spectrum                                                             | Conforms to Structure     | Conforms to Structure     |



John Su  
QA & QC Manager