

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2025-08-15 15:06:53

Date of Next Testing: 2027-08-15 15:06:53

Product Name: **Isopropyl- $\beta$ -D-thiogalactopyranoside(IPTG)**

CAS Number: 367-93-1

Specifications & Purity: Ultra pure,  $\geq 99\%$

Lot #: H2511331

SKU #: **I274316**

Version: **2**

Analysis #: **528289**

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                       | Limit Values          | Result                |
|-----------------------------------------------------------------|-----------------------|-----------------------|
| Melting point                                                   | 110-114 (°C)          | 110.49000 °C          |
| Moisture content                                                | 0-1 (%)               | 0.71560 %             |
| Purity(HPLC)                                                    | 99-100 (%)            | 99.87100 %            |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})$ | -34--29 (°)           | -31.95200 °           |
| PH (5%, water) 25 ° C                                           | 5-7                   | 6.45000               |
| UV Absorbance 300nm(5% in H2O)                                  | 0-0.13                | 0.01100               |
| UV Absorbance 400nm(5% in H2O)                                  | 0-0.06                | 0.00400               |
| Proton NMR spectrum                                             | Conforms to Structure | Conforms to Structure |
| Solubility (5% in H2O)                                          | Pass                  | Pass                  |



John Su  
QA & QC Manager