

CERTIFICATE OF ANALYSIS

Product Name: IPTG, Isopropyl-Beta-D-Thiogalactopyranoside

Chemical Structure: Lot Number: Chem20180218

HO CH₃ CAT Number: APL-0045
CAS Registry Number: 367-93-1

HOOH S CH3 Manufacture Date: 2018-02-18 Expiry Date: 2023-02

Molecular Formula: C9H18O5S

Storage: -20 °C

238.3

Molecular Weight:

Analysis Data

Results **Specification Item** White or off-white solid Appearance Comply Readily soluble in water, Solubility **Complies** almost insoluble in ether Dissolve 0.1g in 10mL of water, Appearance of solution Complies and the solution should be white Dioxane Free Free Residue on ignition ≤ 0.5% 0.01% ≤ 0.5% 0.01% Alpha-isomer NMR/MS/IR Should comply Comply Heavy metals Complies ≤ 20ppm Purity by HPLC* ≥ 98.0% 99.4% 100% Assay by TLC ≥ 99.0% pH (5% w/v in water) 5.0 ~ 8.0 6.7 Specific optical rotation -29°C ~ -34°C -31.2°C (C=1 in water)

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Jennifer LaBrecque 20/03/2022 Quality Assurance Manager

gen Labrugue

Conclusion: The above product meets the specifications of APOLO