

## Certificate of Analysis

Product: Isopropyl- $\beta$ -(D)- <u>Thiogalactopyranoside</u>		Batch No: 201605-18
Quantity:150kg		Packing size:25kg/drum
<u>Cas No: 367-93-1</u>		Test Basis :160518
Items <sup>↕</sup>	Standards <sup>↕</sup>	Results <sup>↕</sup>
Description <sup>↕</sup>	White Crystalline Powder <sup>↕</sup>	White Crystalline Powder <sup>↕</sup>
Solubility <sup>↕</sup>	Soluble in water and methanol <sup>↕</sup>	Soluble in water and methanol <sup>↕</sup>
Identification by IR <sup>↕</sup>	The IR spectrum of the sample should be concordant with the working standard. <sup>↕</sup>	Complies <sup>↕</sup>
pH (5% in water) <sup>↕</sup>	5.0 – 7.0 <sup>↕</sup>	6.15 <sup>↕</sup>
Absorbance 5% w/v <sup>↕</sup>	<sup>↕</sup>	<sup>↕</sup>
Soluble in water. <sup>↕</sup>	<sup>↕</sup>	<sup>↕</sup>
(a) 300 nm <sup>↕</sup>	Not more than 0.15 <sup>↕</sup>	0.06 <sup>↕</sup>
(b) 400 nm <sup>↕</sup>	Not more than 0.06 <sup>↕</sup>	0.01 <sup>↕</sup>
Melting Range <sup>↕</sup>	110°C – 114°C <sup>↕</sup>	110°C – 112°C <sup>↕</sup>
Moisture Content by KF <sup>↕</sup>	NMT1.0% w/w <sup>↕</sup>	0.25% w/w <sup>↕</sup>
Specific Optical Rotation <sup>↕</sup>	-28.5° to -34.5° <sup>↕</sup>	-29.37° <sup>↕</sup>
Assay by TLC <sup>↕</sup>	≥98% <sup>↕</sup>	99.5% <sup>↕</sup>

