



# Certificate of Analysis

## IPTG

### Isopropyl- $\beta$ -D-thiogalactopyranoside

<u>Catalog #</u>	<u>Size</u>
IB02100	1 gm

**Catalog Number:** IB02100

**Lot Number:** 13G0350

**Molecular Formula:** C<sub>9</sub>H<sub>18</sub>O<sub>5</sub>S

**Molecular Weight:** 238.31

**Appearance:** White crystalline powder

<u>Assay</u>	<u>Min</u>	<u>Max</u>	<u>Actual</u>	<u>Units</u>	<u>Disposition</u>
Purity	99.0		99.28	%	PASS
Solubility (5%, Water)	PASS		PASS	P/F	PASS
pH (5%, Water) @25°C	5.0	7.0	6.34		PASS
Dioxane		NONE	NONE	P/F	PASS
Melting Point	110	114	112.0	°C	PASS
Specific Rotation	-34.5	-28.5	-32.65	°	PASS
Moisture (KF)		1.0	0.40	%	PASS
Abs. @300nm (5%, Water)		0.13	0.0274		PASS
Abs. @400nm (5%, Water)		0.06	0.0077		PASS
Identification	PASS		PASS	P/F	PASS

#### **Storage**

Store desiccated at -20°C. Warm to room temperature before opening. Keep tightly sealed.

*This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.*

Signature: K. McCarthy  
Date: 07/09/2013