

Material No.: V264-05 Revision No.: 0

Product Specification

GMP Manufactured Product

Test	Specification	
Appearance (white to off-white solid)	Passes Test	
Identification (IR)	Passes Test	
pH of 5% Solution	5.00 - 7.00	
Specific Rotation @ 25 °C	-34.528.5 °	
Melting Point	110 – 122 °C	
Water (H ₂ O), For Information Only	%	
Purity (by HPLC) (anhydrous basis)	≥ 98 %	
Assay (by HPLC) (anhydrous basis)	98 – 102	
Endotoxin Concentration, EU/g		
Residual Methanol	≤ 3000 ppm	
Residual Ethanol	≤ 5000 ppm	
Residual Isopropanol	≤ 5000 ppm	
Residual Ethyl Acetate	≤ 5000 ppm	
Total Aerobic Microbial Count	$\leq 100 \text{ CFU/g}$	
Total Yeast and Mold Count	$\leq 100 \text{ CFU/g}$	
Biological Induction Characterization (i		
Arsenic (As), For Information Only	ppm	
Cadmium (Cd), For Information Only	ppm	
Mercury (Hg), For Information Only	ppm	
Lead (Pb), For Information Only	ppm	
Cobalt (Co), For Information Only	ppm	
Nickel (Ni), For Information Only	ppm	
Vanadium (V), For Information Only	ppm	
Silver (Ag), For Information Only	ppm	
Gold (Au), For Information Only	ppm	
Iridium (Ir), For Information Only	ppm	
Osmium (Os), For Information Only	ppm	
Palladium (Pd), For Information Only	ppm	

>>> Continued on page 2 >>>



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Platinum (Pt), For Information Only	ppm	
Rhodium (Rh), For Information Only	ppm	
Ruthenium (Ru), For Information Only	ppm	
Selenium (Se), For Information Only	ppm	
Thallium (TI), For Information Only	ppm	
Barium (Ba), For Information Only	ppm	
Chromium (Cr), For Information Only	ppm	
Copper (Cu), For Information Only	ppm	
Lithium (Li), For Information Only	ppm	
Molybdenum (Mo), For Information Only	ppm	
Antimony (Sb), For Information Only	ppm	
Tin (Sn), For Information Only	ppm	
Aluminum (Al), For Information Only	ppm	
Iron (Fe), For Information Only	ppm	
Manganese (Mn), For Information Only	ppm	
Zinc (Zn), For Information Only	ppm	

Isopropyl-beta-D-thiogalactopyranoside IPTG



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CAUTION: For Manufacturing, processing or repackaging

Residual Solvents: The Class 3 solvents Ethanol, Isopropanol, Ethyl Acetate and the Class 2 solvent Methanol are likely to be present. These solvents are quantified and reported on each batch. No other Class 1,2,3, or other solvents are used or produced in the production process. Dioxane was not used in the manufacturing process.

Bacterial Induction characterization: Test performed at 1 mM of IPTG (E. Coli. protein expression)

IPTG is highly hygroscopic. Allow packaging/container to equilibrate to room temperature before opening for analysis. Ensure sample is kept dry (such as in a desiccator) after opening.

Storage Condition: Store and ship product between 2 and 8 °C

Packaging Site: Phillipsburg Mfg Ctr & DC