



Certificate of Analysis

Product Name: X-Gal
Cat #: X4281
CAS #: 7240-90-6
Lot #: Lot Specific
Retest Date[†]: Lot Specific
Storage: Store at -20°C. Protect from light.

Test	Specs	Results
Color	White to off white or colorless	Complies
Form	Crystalline powder or crystals	Complies
Color of solution (1% in DMF/water 1:1)	Colorless	Complies
Turbidity (1% in DMF/water 1:1)	≤4.0 NTU	Complies
Water content (K. Fischer)	≤0.5%	Complies
Purity (HPLC)	≥99.0 area-%	Complies
TLC (50mg in 1ml DMF and 9ml of propanol; butanol/water 86:14; UV 254nm, sulfuric acid)	Corresponds to reference material	Complies
Specific Optical Rotation [α] _D (c = 1 DMF/water 1:1; 20°C)	-63.5 to -59.5	Complies
FT-IR Spectrum	Corresponds to reference spectrum	Complies

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† If provided, the Certificate of Analysis (COA) retest date corresponds to the recommended storage conditions provided on the COA. If no retest date is shown, the shelf-life for products is 2 years after purchase when stored according to COA recommendations. Retest dates are not rigid, and often only serve an informational purpose. COA retest dates are supplied by the manufacturer; however, GoldBio product labels may contain different storage recommendations to extend the life of the product beyond the manufacturer retest date or 2 years from purchase.

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