



# Certificate of Analysis

**Product Name:** X- $\alpha$ -Gal  
**Cat #:** XA  
**CAS #:** 107021-38-5  
**Lot #:** Lot Specific  
**Retest Date<sup>†</sup>:** Lot Specific  
**Storage:** Store at -20°C. Protect from light.

Test	Specs	Results
Color	colorless/white to off-white	Complies
Form	crystals or crystalline powder	Complies
Color of Solution (1% in methanol)	colorless	Complies
Turbidity (1% in methanol)	≤4.0 NTU	Complies
Water Content (K. Fischer)	≤1.0%	Complies
Purity (TLC) (33.3 mg in 1 ml methanol; butanol/water 86:14; UV 254 nm, sulfuric acid)	≥99 area-%	Complies
TLC (33.3 mg in 1 ml methanol; butanol/water 86:14; UV 254 nm, sulfuric acid)	corresponds to reference material	Complies
Specific Optical Rotation [alpha] <sub>D</sub> (c = 0.5 in DMF/water 1:1, 20°C)	142.0 - 148.0	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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