

## Certificate of Analysis

**Product Name:** D-Raffinose pentahydrate  
**Cat #:** R-030  
**CAS #:** 17629-30-0  
**Lot #:** Lot Specific  
**Retest Date:** Lot Specific  
**Storage:<sup>†</sup>** Store at room temperature.

Test	Specs	Results
Color	white to slightly off-white	white
Form	crystalline powder	crystalline powder
Color of Solution (10% in water)	colorless to almost colorless	colorless
Turbidity (1% in water)	max. 4.0 NTU	1.0 NTU
Water Content (K. Fischer) (theoretical for pentahydrate: 15.15%)	max. 16.0%	15.1%
Melting Point	78 to 82°C	78°C
Specific Optical Rotation [alpha] <sub>D</sub> (c = 4 in water, 20°C)	102.0 to 107.0	104.5
Purity (HPLC)	min. 98.0 area-%	98.3 area-%
TLC (30 mg/mL in water; butanol/pyridine/water 45:30:22.5; sulfuric acid)	corresponds to reference material	corresponds
FT-IR Spectrum	corresponds to reference spectrum	corresponds

\* Gold Biotechnology, Inc. provides this Certificate of Analysis in good faith and to the best of its knowledge. It should not be substituted for the user's own raw material quality control. This material is for laboratory use only.

† Storage at listed temperature applies to retest date (if shown) or two years from purchase date. Check label for long term storage conditions, which may extend the product beyond the retest date and/or greater than two years from purchase.

**Gold Biotechnology, Inc.**  
 1328 Ashby Rd.  
 St. Louis, MO 63132  
 P: (314)890-8778  
 F: (314)890-0503  
 E: [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)