

# Certificate of Analysis

**Product Name:**  $\alpha$ -D-Galactose 1-phosphate, dipotassium salt pentahydrate  
**Cat #:** G-105  
**CAS #:** 19046-60-7  
**Lot #:** Lot Specific  
**Retest Date:** Lot Specific  
**Storage:<sup>†</sup>** Store desiccated at -20°C.

Test	Specs	Results
Color	White to off-white	white
Form	crystalline powder	crystalline powder
Color of solution (5% in water)	Colorless	Colorless
Turbidity of solution (0.5% in water)	Max. 2.0 NTU	0.5 NTU
Water Content (K. Fischer) (theoretical for pentahydrate 21.12%)	Max. 23.0%	21.4%
Specific rotation [alpha]D (c=2 in water, 20°C, calculated for pentahydrate)	80.0-83.0	80.6
Perchloric acid titration (0.1 mol/L)	99.0-103.0%	102.1%
Inorganic Phosphorus	Max. 0.2%	0.03%
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.

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