

Certificate of Analysis

Product Name: 4-Nitrophenyl- α -D- glucopyranoside (p-Nitrophenyl- α -D-glucoside; PNP- α -D-Glc)
Cat #: N-310
CAS #: 3767-28-0
Lot #: Lot Specific
Retest Date: Lot Specific
Storage:[†] Store at -20°C. Protect from light.

Test	Specs	Results
Color	white to off-white	white
Form	crystalline powder	crystalline powder
Color of Solution (2% in methanol)	colorless to greenish-yellow	colorless
Turbidity (2% in methanol)	max. 7.5 NTU	0.8 NTU
Water Content (K. Fischer)	max. 0.5%	0.1%
Melting Point	210 to 214°C	210°C
Specific Optical Rotation [alpha] _D (c = 1 in water, 20°C)	210 to 220	218.98
Purity (HPLC)	min. 98.0 area-%	99.5 area-%
Impurity (p-nitrophenol; UV)	max. 0.1%	<0.1%
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