

Certificate of Analysis

Product Name: 4-Nitrophenyl- α -D- galactopyranoside
Cat #: N-280
CAS #: 7493-95-0
Lot #: Lot Specific
Retest Date: Lot Specific
Storage:[†] Store at -20°C. Protect from light.

Test	Specs	Results
Color	white to off-white	slightly off-white
Form	crystalline powder	crystalline powder
Color of Solution (5% in water)	colorless to almost colorless	colorless
Turbidity (0.5% in water)	max. 2.0 NTU	0.5 NTU
Water Content (K. Fischer)	max. 1.0%	0.1%
Melting Point	161 to 169°C	165°C
Specific Optical Rotation [alpha]D (c = 1 in water, 20°C)	242.0 to 248.0	244.8
Purity (HPLC)	min. 99.0 area-%	99.4 area-%
TLC (50 mg in 1.5 ml water; butanol/acetic acid/water 3:1:1; UV 254 nm, sulfuric acid)	corresponds to reference material	corresponds
Impurity (p-nitrophenol, HPLC)	max. 0.05%	0.02%
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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