

Certificate of Analysis

Product Name: 4-Methylumbelliferyl- β -D-glucopyranoside
Cat #: M-640
CAS #: 18997-57-4
Lot #: Lot Specific
Retest Date: Lot Specific
Storage:[†] Store at -20°C. Protect from light.

Test	Specs	Results
Color	white to off-white	off-white
Form	powder	powder
Color of Solution (3% in water/acetone 1:2)	colorless	colorless
Turbidity (3% in water/acetone 1:2)	max. 11 NTU	3.6 NTU
Water Content (K. Fischer)	max. 2.0%	0.5%
Specific Optical Rotation [alpha]D (c = 0.3 in water, 20°C)	-102.0 to -98.0	-100.5
Purity (TLC) (100 mg in 3 ml of water/acetone 1:2; 1butanol/acetic acid/water 6:3:1; UV 254 nm, sulfuric acid)	min. 99 area-%	>99 area-%
Free 4-MU (100 mg in 3 ml of water/acetone 1:2; toluene/acetone 5:1; UV 366 nm after treating with ammonia)	max. 10 mg/kg	<10 mg/kg
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