



Product Specification

Product Name: 4-Methylumbelliferyl-beta-D-glucuronic acid dihydrate (MUG)
Cat #: M-645
CAS #: 881005-91-0
Storage: Store desiccated at -20°C.

Test	Specifications
Color	white
Form	crystalline powder
Color of Solution (1% in water, 60°C)	colorless
Turbidity (0.1% in water)	≤2.0 NTU
Water Content (K. Fischer)	8.0-12.0%
Specific Optical Rotation [α] _D (c = 0.25 in water, 35°C)	-107.0 to -103.0
Sodium Hydroxide Titration (0.1 mol/L) (calculated for dihydrate)	99.0-101.0%
Purity (TLC) (50 mg in 1.5 ml water/acetone 1:2; butanol/acetic acid/water 6:3:1; UV 254 nm, sulfuric acid)	≥99 area-%
Free 4-MU (TLC; 50 mg in 1.5 ml water/acetone 1:2; toluene/acetone 5:1; UV 366 nm after treating with ammonia)	≤25 mg/kg
FT-IR Spectrum	corresponds to reference spectrum

GOLD BIOTECHNOLOGY, INC. provides this Product Specification in good faith. Specifications are subject to change.

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