

Catalog Number M1489MP
Product Name 4-methylumbelliferyl β -D-galactopyranoside (MUG)
CAS Number / Name 6160-78-7 / 2H-1-Benzopyran-2-one, 7-(β -D-galactopyranosyloxy)-4-methyl-
Molecular Formula $C_{16}H_{18}O_8$
Molecular Weight 338.31
Appearance white solid
Lot Number 1700058

	LOT DATA	SPECIFICATION
Absorption ¹ Maximum Extinction	317 nm 14500 cm ⁻¹ M ⁻¹	316 \pm 3 nm 14500 \pm 1000 cm ⁻¹ M ⁻¹
Fluorescence ¹ Emission Maximum	378 nm	374 \pm 4 nm
HPLC Purity	99 % at 254 nm	\geq 95 % at 254 nm
NMR Result	meets specification	consistent with structure
Miscellaneous Information Material Lot Number	74100555	N/A

1. Solvent: Buffer, 50 mM potassium phosphate (pH 9).


Rachel Smith, Ph.D., Quality Assurance

30-Apr-2015

Life Technologies Corporation, on behalf of its Invitrogen business, Molecular Probes® labeling and detection technologies, certifies on the date above that this is an accurate record of the analysis of the subject lot and that the data conform to the specifications in effect for this product at the time of analysis.