

Catalog Number M1489MP  
Product Name 4-methylumbelliferyl  $\beta$ -D-galactopyranoside (MUG)  
CAS Number / Name 6160-78-7 / 2H-1-Benzopyran-2-one, 7-( $\beta$ -D-galactopyranosyloxy)-4-methyl-  
Molecular Formula  $C_{16}H_{18}O_8$   
Molecular Weight 338.31  
Appearance white solid  
Lot Number 1745340

	LOT DATA	SPECIFICATION
<b>Absorption</b> <sup>1</sup> Maximum Extinction	317 nm 14500 cm <sup>-1</sup> M <sup>-1</sup>	316 $\pm$ 3 nm 14500 $\pm$ 1000 cm <sup>-1</sup> M <sup>-1</sup>
<b>Fluorescence</b> <sup>1</sup> Emission Maximum	378 nm	374 $\pm$ 4 nm
<b>HPLC</b> Purity	99 % at 254 nm	$\geq$ 95 % at 254 nm
<b>NMR</b> Result	meets specification	consistent with structure
<b>Miscellaneous Information</b> Material Lot Number	74299849	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.