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

C₁₆H₁₈O₈

Molecular Weight

338.31 colorless solid

Appearance

Lot Number

1639210

	LOT DATA	SPECIFICATION
Absorption ¹		
Maximum	317 nm	316 ± 3 nm
Extinction	14300 cm ⁻¹ M ⁻¹	$14500 \pm 1000 \text{ cm}^{-1}\text{M}^{-1}$
Fluorescence ¹		
Emission Maximum	375 nm	374 ± 4 nm
HPLC		
Purity	99 % at 254 nm	≥ 95 % at 254 nm
NMR	* 2	Δ.
Result	meets specification	consistent with structure
Miscellaneous Information		
Material Lot Number	73504990	N/A

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

Ramulamitt Rachel Smith, Ph.D., Quality Assurance

08-Jul-2013

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.