



SPECIFICATION

4-Methylumbelliferyl b-D-glucuronide dihydrate (MUG)

Product Code:	EM05085
Synonyms:	MUG beta-D-Glucopyranosiduronic Acid
CAS Number:	6160-80-1, 881005-91-0
Chemical Formula:	$C_{16}H_{16}O_9 \cdot 2H_2O$
Molecular Weight:	388.32

TECHNICAL SPECIFICATION

Appearance:	Colourless crystals or white crystalline powder
Purity (HPLC):	min 99%
Specific optical rotation [α] _D	-103 to -107° ²⁰ (c=0.25, H ₂ O):
Identity (¹ H NMR):	Conforms to structure
Solubility (1% in water at 60°C):	Clear, colourless solution
Free 4-Methylumbelliferone:	max 25ppm
Water content (Karl Fischer):	8 - 10.2%