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CERTIFICATE OF ANALYSIS

Product Name 4-Methylumbelliferyl N-acetyl-beta-D-glucosaminide

Product Code 44007

Batch No W/SAMPLE

CAS Number 37067-30-4

Molecular Formula $C_{18}H_{21}NO_8$

Molecular Weight 379.4

Product Storage To prevent deterioration, the product should be stored in tightly closed containers in a freezer or cold room at -20 degrees centigrade.

Test	Specification	Result
Appearance	Fluffy white needles	Fluffy white needles
HPLC	>99%	99.5%
Purity	Free 4-methylumbelliferone <100ppm	Free 4-methylumbelliferone <100ppm
Water content	<1% by Karl Fischer	0.8%
Specific Optical Rotation	$[\alpha]_D -30^\circ$ to -34°	-32°
Specific Optical Rotation Method	$c = 1$ in pyridine, 20°C	$c = 1$ in pyridine, 20°C
Expiration date		01 January 2007

Date of Issue 01 January 2001 **Version** 1

Chemist Mrs Ellen Atkinson MChem.

Approval

Document No. 44007/W/SAMPLE