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CERTIFICATE OF ANALYSIS

Product Name p-Nitrophenyl beta-D-glucuronide (Hydrate)

Product Code 38064

Batch No W/SAMPLE

CAS Number 10344-94-2

Molecular Formula $C_{12}H_{13}NO_9$

Molecular Weight 315.2

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	Crystalline powder	Crystalline powder
TLC	>99%	99.5%
Purity	Free p-Nitrophenol <500ppm	Free p-Nitrophenol <500ppm
Water content	<7%	5.5%
Specific Optical Rotation	$[\alpha]_D -99^\circ$ to -105°	-102°
Specific Optical Rotation Method	$c = 1$ in ethanol, 20°C	$c = 1$ in ethanol, 20°C
Solution Test	10% solution in water, clear and faintly yellow	10% solution in water, clear and faintly yellow
Expiration date		01 January 2007

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

Chemist Mrs Ellen Atkinson MChem.

Approval

Document No. 38064/W/SAMPLE