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CERTIFICATE OF ANALYSIS

Product Name 4-Methylumbelliferyl alpha-D-glucopyranoside

Product Code 44051

Batch No W/SAMPLE

CAS Number 17833-43-1

Molecular Formula C₁₆H₁₈O₈

Molecular Weight 338.3

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 | White to off-white crystalline powder | White crystalline powder |
| Purity | Free 4-Methylumbelliferone <200ppm | <200ppm |
| HPLC | >99% | 99.5% |
| Water content | <7% | 2.5% |
| Solution Test | 5% in pyridine is clear and colourless to faintly yellow | 5% in pyridine is clear and colourless to faintly yellow |
| Specific Optical Rotation | [alpha] _D +216° to +240° | +228° |
| Specific Optical Rotation Method | c = 0.5 in methanol, 20°C | c = 0.5 in methanol, 20°C |
| Expiration date | | 01 January 2007 |

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

Chemist Mrs Ellen Atkinson MChem.

Approval

Document No. 44051/W/SAMPLE