



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

Product: 4-Methylumbelliferyl-beta-D-cellobiopyranoside

Code No: M1091

CAS No: 72626-61-0

Formula: $C_{22}H_{28}O_{13}$

Batch No: 454956

Appearance: White crystalline powder

Colour of solution: Colourless (1% in water/acetone 1:1)

Turbidity: 1.5 NTU (1% in water/acetone 1:1)

Water content: 2.1% (KF)

Purity: 99.7% (HPLC)

Free 4-MU: <100mg/kg

Specific optical rotation: -95.5° (c=0.2 in water, 20°C)

FT-IR Spectrum: Corresponds to reference spectrum

Prepared by:

Ramesh Mandadi

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Director of Operations

Reviewed and approved by:

Sujata Moton

S. Moton

VP