



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

Catalogue Number 024257
Lot Number 001779-131002
Product **D-Raffinose pentahydrate**

Melitose

Melitriose

CAS Number 17629-30-0
Molecular Formula $C_{18}H_{32}O_{16} \cdot 5H_2O$
Molecular Weight 594.52

Appearance	White crystalline powder
Solubility	Clear and colorless (10% in water)
Melting Point	78-82 °C
Bulk density	0.69 g/cm ³
Heavy Metals	< 5 µg/g (Total)
Arsenic (As ₂ O ₂)	0.1 µg/g
Cation	Cadmium (Cd): 0.1 µg/g Lead (Pb): 0.2 µg/g Mercury (Hg): Not detectable
Yeast and Mold	< 10 cfu/g
Optical Rotation	$[\alpha]_D^{20} = +105.2^\circ$
Loss on Drying	13.67%
E. Coli, Salmonella, S.Aureus	Absent
Mesh Size	> 95% through 30 mesh
Residue On Ignition	0.03%
Purity by HPLC	99.09%
Storage	Store at RT
Additional Information	Total Plate Count: 30 cfu/g

Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and approved by:
Sujata Moton
S. Moton
VP