



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number 024257
Product **D-Raffinose pentahydrate**

Lot Number 002300-180403
Melitose

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 solution (10% in water)
Odor	Characteristic
Melting Point	78 - 82 °C
Bulk density	0.48 g/ml
Heavy Metals	Arsenic (As): < 0.1 µg/g Cadmium (Cd): < 0.01 µg/g Lead (Pb): < 0.1 µg/g Mercury (Hg): < 0.01 µg/g Total Heavy metals: < 10 µg/g
Mould and Yeast	< 10 cfu/g
Optical Rotation	$[\alpha]_D^{20} = +104^\circ$
Infrared Spectrum	Conforms to structure
Loss on Drying	14.94%
E. Coli, Salmonella, S.Aureus	Absence
Microbial Count	30 cfu/g (Total plate count)
Particle Size	> 95% through 30 mesh
Residue On Ignition	0.01%
Purity by HPLC	98.45%
Grade	USP
Storage	Store at RT

Prepared by:
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Ramesh Mandadi
Director of Operations

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VP