

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	02022
Lot Number	002300-180403
Product	D-Raffinose pentahydrate Melitose
CAS Number	17629-30-0
Molecular Formula	C ₁₈ H ₃₂ O ₁₆ •5H ₂ O
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	[α] _D ²⁰ = + 104°
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%
Storage	Store at RT
Additional Information	Pesticide Residues: Complies to USP Aflatoxins: Not detected

Certificate of Analysis

Catalog Number: 02022

Lot Number: 002300-180403

Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager