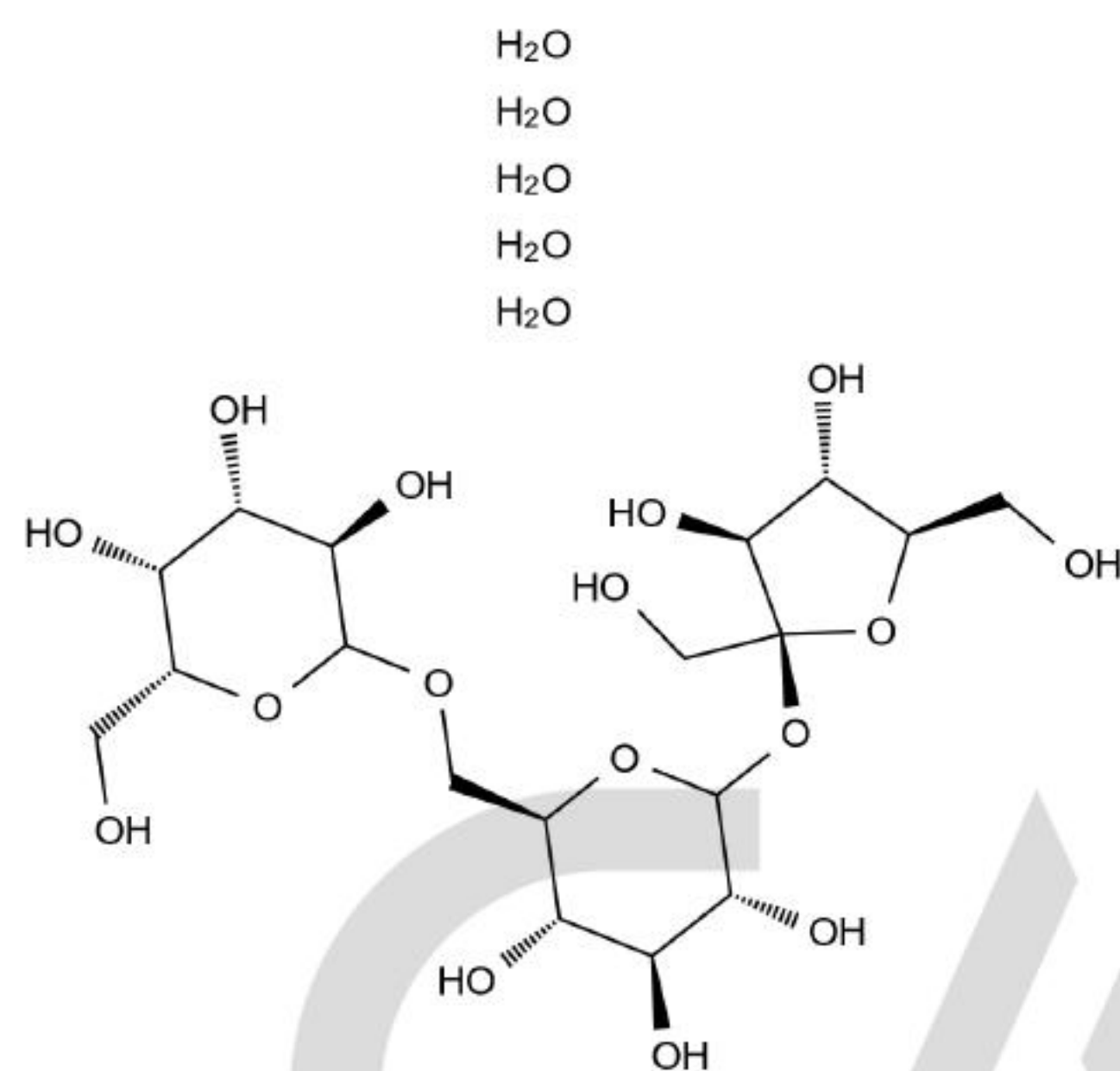


Certificate of Analysis

Intermediate Material

Product Name:	D-(+)-Raffinose Pentahydrate	Catalogue Number:	CIM-105147
Batch Size:	N/A	Lot Number:	1117-RG-0140
CAS Number:	17629-30-0	Production Date:	Jan 26, 2025
Molecular Formula:	$C_{18}H_{32}O_{16} \cdot 5H_2O$	Expiry Date:	Jan 25, 2027
Molecular Weight:	504.44 5×18.02	Storage:	2°C ~ 8°C Protected from light and Sealed

Chemical Structure:



Test Items	Acceptance Criteria	Results
Appearance	White Crystalline Solid	White Crystalline Solid
Identification	Confirmed	Confirmed
Particle Size	NLT 95%(30#)	Confirmed
Solubility	Confirmed	Confirmed
Melting Point	98~82°C	Confirmed
Pesticide Residues	Confirmed	Confirmed
Heavy metals	Confirmed	Confirmed
As	NMT 1.0µg/g	0.1µg/g
Cd	NMT 0.5µg/g	0.01µg/g
Pb	NMT 1.0µg/g	0.1µg/g
Hg	NMT 0.1µg/g	0.01µg/g
Bulk Density	0.40g/ml~0.70g/ml	0.67g/ml
Specific Rotation	+103.0~+108.0°	+103.9°
Loss on Drying	13.0~17.0%	14.28%
Residue on Ignition	NMT 0.1%	0.02%
Total Microbial Count	NMT 1000CFU/g	< 10

Signature:

Prepared by:

Koi

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Nov 19, 2025

Date: Nov 19, 2025

Date: Nov 19, 2025



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

