

QUALITY SPECIFICATION

D-(+)-Raffinose Pentahydrate

Catalog No.: NST-10-83

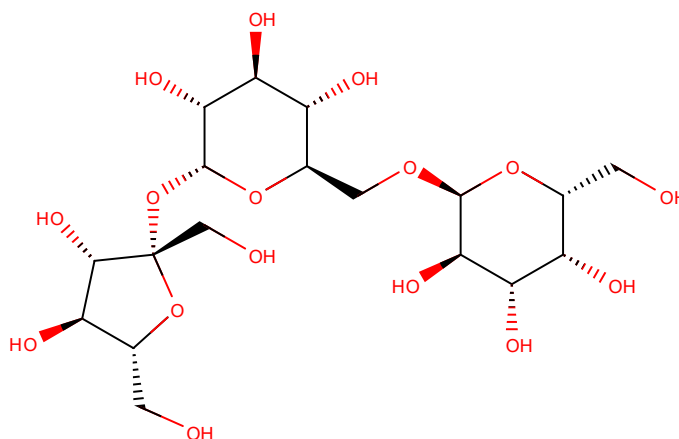
CAS No.: 17629-30-0

Molecular formula: $C_{18}H_{42}O_{21}$

MW: 549.50

Source: *Gossypium Hirsutum* L.

Part used: seeds



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	White	Visual
3.	Identification	Conforms	TLC&NMR
4.	Purity	≥ 98.0 %	HPLC
5.	Melting point	78°C-82°C	Melting point apparatus
6.	Sulfated ash	≤0.1 %	In house
7.	Loss on drying	≤15.3 %	In house
8.	Specific rotation	+103.6° to +106.2°	Polarimeter
9.	Heavy Metals	≤10 ppm	ICP-MS
10.	Lead	≤1 ppm	ICP-MS
11.	Arsenic	≤1 ppm	ICP-MS
12.	Mercury	≤0.1 ppm	ICP-MS
13.	Cadmium	≤3 ppm	ICP-MS

14.	TPC	Not more than 10 ³ CFU/g	ISO 6579:2002
15.	TYMC	Not more than 10 ² CFU/g	ISO 6579:2002
16.	<i>Escherichia Coli</i>	Absent	ISO 6579:2002
17.	<i>Salmonella</i>	Absent	ISO 6579:2002
18.	<i>Staphylococcus aureus</i>	Absent	ISO 6579:2002

Storage: long term storage - airtight container +2 ... +8 °C

Stability: 36 months when properly stored