

QUALITY SPECIFICATION

D-Raffinose Pentahydrate

Catalog No.: NST-10-83

CAS No.: 17629-30-0

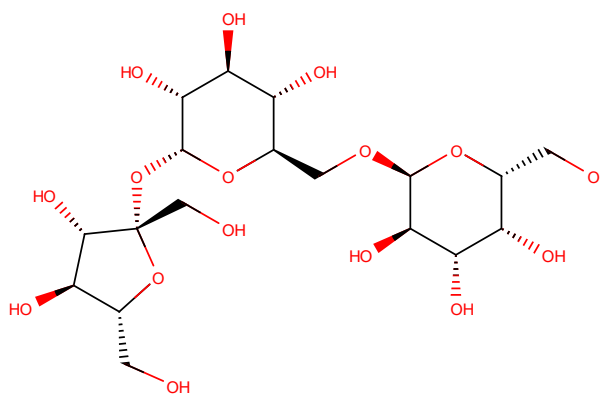
Molecular formula: $C_{18}H_{42}O_{21}$

MW: 549.50

Source: *Gossypium herbaceum* Linn.

Part used: seeds

Shelf life: 24 months



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	White	Visual
3.	Identification	Conforms	TLC
4.	Assay	≥98.0 %	HPLC-ELSD
5.	Odor	Characteristic	Organoleptic
6.	Taste	Characteristic	Organoleptic
7.	Residue on ignition	≤0.1 %	USP <281>
8.	Loss on drying	≤15.3 %	USP <731>
9.	Mesh size/sieve	≥95 % pass 80 mesh	80 mesh
10.	Bulk density	≤0.8 g/ml	USP <616>
11.	Solvent residues	USP <467>	GC
12.	Heavy Metals	≤10 ppm	ICP-MS
13.	Lead	≤2 ppm	ICP-MS
14.	Arsenic	≤1 ppm	ICP-MS

15.	Mercury	≤0.1 ppm	ICP-MS
16.	Cadmium	≤1 ppm	ICP-MS
17.	TPC	<10 ³ CFU/g	USP <2021>
18.	TYMC	<10 ² CFU/g	USP <2021>
19.	<i>Escherichia Coli</i>	Absent	USP <2022>
20.	<i>Salmonella</i>	Absent	USP <2022>
21.	<i>Staphylococcus aureus</i>	Absent	USP <2022>

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored