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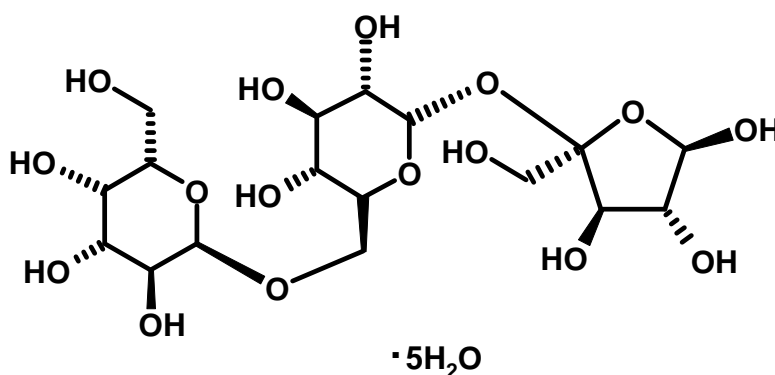
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## Product Specifications

### D-(+)-Raffinose Pentahydrate

CAS 17629-30-0

Structure:



Mol. Formula  
Source

$C_{18}H_{32}O_{16} \cdot 5H_2O$   
*Gossypium Hirsutum L. (seed)*

Mol. Wt.

594.51

*Test*

*Specification*

<b>Identity</b>	IR
<b>Appearance</b>	White microcryst. solid
<b>Particle Size</b>	100% through 30 mesh
<b>Mp</b> (USP34-NF29<741>)	78 - 82 °C
<b>Assay</b> (hplc)	> 99 %
<b>Sp. Rot., <math>[\alpha]_D</math></b> (USP34-NF29<781>)	+104° to +106°
<b>LOD</b> (USP34-NF29<731>)	< 15%
<b>Ash</b> (residue on ignition) (USP34-NF29<281>)	< 0.1%
<b>pH</b> (USP34-NF29<791>)	5.5-6.5

- cont'd -

**Wilshire Technologies**

**TEL: +1- 609-683-1117**

- cont'd -

<i>Test</i>	<i>Specification</i>	<i>Results</i>
<b>Heavy metals</b> (USP34-NF29<231>)		
<b>Cu</b>	< 10 ppm	
<b>Pb</b>	< 2 ppm	
<b>As</b>	< 0.5 ppm	
<b>Cd</b>	< 2 ppm	
<b>Hg</b>	< 0.5 ppm	
<b>Iron (Fe)</b>	< 5 ppm	
 <b><u>Microbiological Specifications</u></b>		
Total plate count (USP34-NF29<2021>)	< 100 cfu/g	
<i>E. Coli</i> (USP34-NF29<2022>)	Negative	
<i>Salmonella</i> (USP34-NF29<2022>)	Negative	
Staphylococcus aureus (USP34-NF29<2022>)	Negative	
<b>Mold and Yeast</b> (USP34-NF29<2021>)	< 100 cfu/g	

*Storage:* Maintain in cool, dry containment.