

## Certificate of Analysis

**Product Name:** Sucrose

CAS Number: 57-50-1

IUPAC Name:  $\beta$ -D-Fructofuranosyl  $\alpha$ -D-glucopyranoside

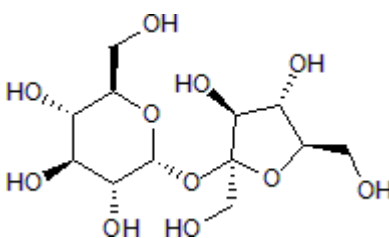
**Catalog No.:** 5511

**Batch No.:** 2

EC Number: 200-334-9

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	$C_{12}H_{22}O_{11}$
<b>Batch Molecular Weight:</b>	342.3
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	water to 500 mg/ml
<b>Storage:</b>	Desiccate at RT
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>Optical Rotation:</b>	$[\alpha]_D = +66.45$ (Concentration = 26, Solvent = Water)
<b>Purity (Polarimetry)::</b>	99.9%
<b>Glucose:</b>	<0.1%
<b>Heavy metals (as Pb)::</b>	<0.5ppm
<b>Rnase:</b>	None detected
<b>Dnase:</b>	None detected
<b>Protease:</b>	None detected

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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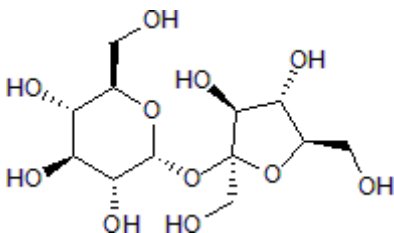
**Description:**

Disaccharide of glucose and fructose. Commonly used to prepare gradients for centrifugation separations.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>

Batch Molecular Weight: 342.3

Physical Appearance: White solid

**Batch Molecular Structure:****Storage:** Desiccate at RT**Solubility & Usage Info:**

water to 500 mg/ml

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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