

# Sucrose

Cell Culture Tested

**Product Code: TC048**

## Product Description :

Molecular Weight: 342.30  
Molecular Formula:  $C_{12}H_{22}O_{11}$   
CAS No.: 57-50-1

Sucrose is a disaccharide of glucose and fructose. It is isolated from cane sugar. Sucrose is commonly used in density gradient for separation of cells and cell organelle. Sucrose also acts as source of carbohydrates in insect cell culture medium.

## Storage and shelf Life:

Store at below 30°C away from bright light.  
Use before the expiry given on the label.

## Quality Control:

### Appearance

Colourless or white to off-white hygroscopic crystals or powder

### Solubility

1000 mg soluble in 1 mL of water

### FTIR

Matches with the standard pattern

### Melting range

185 - 187°C

### Specific rotation (c = 10% in water at 25°C)

+65.90° to +67.0°

### Assay (HPLC)

NLT 99%

### Cell Culture Test

Passes

### Insect Cell Culture Test

Passes

Revision No.: 01 / 2021

### Disclaimer :

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