

Technical Information

Sucrose Plant Culture Tested

Product Code: PCT1607

Product Information

Product Code	: PCT1607
Product Name	: Sucrose, Plant Culture Tested
Synonym	: β -D-Fructofuranosyl- α -D-glucopyranoside; Sugar
Molecular Formula	: $C_{12}H_{22}O_{11}$
Molecular Weight	: 342.30
CAS No.	: 57-50-1

Technical Specification

Appearance	: Colourless white crystals or crystalline powder.
Solubility	: Soluble in water
Clarity	: 10% solution is clear and colourless
Cultural response	: Cultures conditions - Incubation period (5wks), Relative humidity (60 \pm 2%), Temperature (25 \pm 2 $^{\circ}$ C), Photoperiod Day: Night in hours (16:8)
Shoot culture	: No structural deformity observed, actively growing shoots, no toxicity to shoots
Callus culture	: No necrotic tissues, actively growing callus, no toxicity to callus
Barium (Ba)	: No opalescence on standing for 1 hour
Calcium (Ca)	: Solution remains clear for atleast 1 hour
Heavy metals (as Pb)	: \leq 0.001%
Sulphated ash	: \leq 0.1%
Specific rotation (α) ²⁰ _D (c = 10% in water)	: +65.9 $^{\circ}$ to +67.0 $^{\circ}$
Minimum assay (GC)	: 99.00 %

Risk And Safety Information

WGK	: 2
RTECS	: WN6500000
Storage Temperature($^{\circ}$ C)	: Store below 30 $^{\circ}$ C

Transport Information

Marine Pollutant	: No
ADR/RID	: Not Dangerous Goods
IMDG	: Not Dangerous Goods
IATA	: Not Dangerous Goods

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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