

PCT0317 L-Proline, Plant Culture Tested

Product Number Packing

PCT0317	: 1KG
PCT0317	: 25G
PCT0317	: 500G
PCT0317	: 5G

Product Information

Product Code	: PCT0317
Product Name	: L-Proline, Plant Culture Tested
Synonym	: (S)-Pyrrolidine-2-carboxylic acid
Molecular Formula	: C ₅ H ₉ N O ₂
Molecular Weight	: 115.13
CAS No.	: 147-85-3
EC No.	: 205-702-2
HS Code	: 2933 99 80
Shelf Life	: 4 years

Technical Specification

Appearance	: White to off-white solid or crystals or powder
Solubility	: 1000 mg soluble in 1 mL of water
pH (10% in water at 25°C)	: 5.00 - 7.00
Cultural response	: Cultures conditions - Incubation period (5wks), Relative humidity (60±2%), Temperature (25±2°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
FTIR (KBr disc)	: Matches with the standard pattern
Melting range	: ~228°C (dec.)
Specific rotation [alpha 25/D]	: -84.0° to -86.0° (c = 4% in water)
Heavy metals (as Pb)	: <= 0.002%
Arsenic (As)	: <= 0.0003%
Loss on drying (105°C, 3 hrs)	: <= 0.3%
Residue on ignition	: <= 0.1%
Assay (NT, on dry basis)	: 99.00 - 101.00 %

Risk and Safety Information

WGK	: 1
RTECS	: TW3584000
Storage Temperature(°C)	: Store below 30°C

Transport Information

Marine Pollutant	: -
ADR/RID	: Not Dangerous Goods



Product Information

IMDG : Not Dangerous Goods
IATA : Not Dangerous Goods

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