

### Technical Information

#### L-Glutamine Plant Culture Tested

**Product Code: PCT1308**

#### Product Information

Product Code	: PCT1308
Product Name	: L-Glutamine, Plant Culture Tested
Synonym	: L-Glutamic acid 5-amide
Molecular Formula	: $C_5H_{10}N_2O_3$
Molecular Weight	: 146.14
CAS No.	: 56-85-9

#### Technical Specification

Appearance	: White to off-white crystals or powder
Solubility	: 33.3 mg soluble in 1 mL of water
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
pH (2.5% in water at 25°C)	: 4.00 - 6.00
Specific rotation ( $\alpha$ ) <sup>20</sup> <sub>D</sub>	: +6.30° to +7.30° (c = 4% in water)
Melting range	: ~185°C (dec.)
Heavy metals (as Pb)	: ≤ 0.0015%
Chloride (Cl)	: ≤ 0.05%
Sulphate (SO <sub>4</sub> )	: ≤ 0.03%
Iron (Fe)	: ≤ 0.003%
Loss on drying (at 105°C, 3 hrs.)	: ≤ 0.30%
Residue on ignition	: ≤ 0.30%
Assay (NT/HPLC, dry basis)	: 99.00 -101.00 %

#### Risk And Safety Information

WGK	: 1
RTECS	: MA2275100
Storage Temperature(°C)	: Store below 30°C

#### Transport Information

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



Plant Culture  
Tested



## Product Specification

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### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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