PCT0324  D-Glutamine, Plant Culture Tested

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<th>Product Number</th>
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<tr>
<td>PCT0324</td>
<td>1G</td>
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<tr>
<td>PCT0324</td>
<td>5G</td>
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**Product Information**

- **Product Code**: PCT0324
- **Product Name**: D-Glutamine, Plant Culture Tested
- **Synonym**: D-2-Aminoglutaric acid; D-Glutamic acid 5-amide
- **Molecular Formula**: C₅H₁₀N₂O₃
- **Molecular Weight**: 146.14
- **CAS No.**: 5959-95-5
- **HS Code**: 2924 19 00
- **Shelf Life**: 4 years

**Technical Specification**

- **Appearance**: White crystals or powder
- **Solubility**: 33.3 mg soluble in 1 mL of 1M hydrochloric acid
- **Cultural response**: Cultures conditions - Incubation period (5wks), Relative humidity (60±2%), Temperature (25±2ºC), 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
- **Specific rotation [alpha] 20/D**: -35.0° to -30.0° (c = 5% in 5M HCl)
- **Assay (NT/NaOH Titration)**: 98.50 - 101.50%

**Risk and Safety Information**

- **WGK**: 3
- **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