PCT0308 L-Glutamine, Plant Culture Tested

**Product Information**

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<tr>
<th>Product Number</th>
<th>Packing</th>
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<tr>
<td>PCT0308</td>
<td>100G</td>
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<td>PCT0308</td>
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<td>PCT0308</td>
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**Product Code**: PCT0308  
**Product Name**: L-Glutamine, Plant Culture Tested  
**Synonym**: L-Glutamic acid 5-amide  
**Molecular Formula**: C₅H₁₀N₂O₃  
**Molecular Weight**: 146.14  
**CAS No.**: 56-85-9  
**EC No.**: 200-292-1  
**HS Code**: 2924 19 00  
**Shelf Life**: 4 years

**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±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  
- **pH (2.5% in water at 25º)**: 4.00 - 6.00  
- **FTIR (KBr disc)**: Matches with the standard pattern  
- **Specific rotation [α 20/D]**: +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 (SO₄)**: <= 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
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