PCT0317  L-Proline, Plant Culture Tested

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Packing</th>
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<tbody>
<tr>
<td>PCT0317</td>
<td>1KG</td>
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<tr>
<td>PCT0317</td>
<td>25G</td>
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<tr>
<td>PCT0317</td>
<td>500G</td>
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<td>PCT0317</td>
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**Product Information**

- **Product Code**: PCT0317
- **Product Name**: L-Proline, Plant Culture Tested
- **Synonym**: (S)-Pyrrolidine-2-carboxylic acid
- **Molecular Formula**: C₅H₉NO₂
- **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
<table>
<thead>
<tr>
<th>IMDG</th>
<th>Not Dangerous Goods</th>
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<tbody>
<tr>
<td>IATA</td>
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