**Product Information**

**PCT0304 L-Aspartic acid**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Packing</th>
</tr>
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<tbody>
<tr>
<td>PCT0304</td>
<td>100G</td>
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<tr>
<td>PCT0304</td>
<td>25G</td>
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<tr>
<td>PCT0304</td>
<td>500G</td>
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</tbody>
</table>

**Product Information**

- **Product Code**: PCT0304
- **Product Name**: L-Aspartic acid
- **Molecular Formula**: C₄H₇NO₄
- **Molecular Weight**: 133.10
- **CAS No.**: 56-84-8
- **EC No.**: 200-291-6
- **HS Code**: 2922 49 85
- **Shelf Life**: 4 years

**Technical Specification**

- **Appearance**: White to off-white crystals or powder
- **Solubility**: 33.3 mg soluble in 1mL of sodium hydroxide
- **Clarity**: In alkali, it is clear and colourless
- **Iron (Fe)**: <= 0.001%
- **Loss on drying (at 105°C, 3hrs)**: <= 0.50%
- **Residue on ignition**: <= 0.10%
- **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
- **Specific rotation [α 20/D]**: +24.0° to +26.0° (c = 8% in 6N hydrochloric acid)
- **Chloride (Cl)**: <= 0.02%
- **Sulphate (SO₄)**: <= 0.03%
- **Heavy metals (as Pb)**: <= 0.001%
- **Assay (NT/NaOH Titration, on dry basis)**: 99.00 - 101.00%

**GHS Safety Information**

- **Hazard Statement(s)**: H319
- **Precautionary Statement(s)**: P305+P351+P338
- **Signal Word**: Warning
- **Hazard Pictogram(s)**
### Risk and Safety Information

- **S-Phrase(s)**: 22-24/25
- **WGK**: 1
- **RTECS**: CI9098500
- **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