# Product Information

## PCT0610 D(+) - Trehalose dihydrate, Plant Culture Tested

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Packing</th>
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<tbody>
<tr>
<td>PCT0610</td>
<td>5G</td>
</tr>
<tr>
<td>PCT0610</td>
<td>10G</td>
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<tr>
<td>PCT0610</td>
<td>25G</td>
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<tr>
<td>PCT0610</td>
<td>1KG</td>
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</tbody>
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## Product Information

- **Product Code**: PCT0610
- **Product Name**: D(+) - Trehalose dihydrate, Plant Culture Tested
- **Molecular Formula**: C\(_{12}H_{22}O_{11}\).2H\(_2\)O
- **Molecular Weight**: 378.33
- **CAS No.**: 6138-23-4
- **EC No.**: 202-739-6
- **HS Code**: 2940 00 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±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**: +177 to +181° (c = 2% in water at 20°C)
- **Melting range**: 97 - 99°C
- **Water (K.F.)**: 9.00 - 10.00%
- **Assay (GC/ HPLC)**: min. 99.00 %

## Risk and Safety Information

- **WGK**: 2
- **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