# 4282-060

**Paracetamol (Acetaminophen)**

**Crystalline Grade**

**Direct Compression**

### Summary

Bulk acetaminophen used in manufacturing is available in different grades of quality. Crystalline grades are optimally compressible, whereas amorphous grades are poorly compressible. The following formulation combines crystalline acetaminophen with PROSOLV® EASYtab SP in a typical 500 mg dosage.

### Formulation

<table>
<thead>
<tr>
<th>Active content</th>
<th>mg/tablet</th>
<th>Contribution [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paracetamol (Acetaminophen)</td>
<td>500.0</td>
<td>500.0</td>
</tr>
<tr>
<td>PROSOLV® EASYtab SP</td>
<td>300.0</td>
<td>37.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>800.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

### Procedure

**Blending:**

The API was blended with PROSOLV® EASYtab SP for 15 minutes. The powder mixture was ready for direct compression.

**Equipment:**

- **Tablet Press:** Korsch EK 0
- **Turbula Mixer:** Type T2A
- **Hardness Tester:** Schleuniger Tablet Tester 6D
- **Disintegration Tester:** Pharmatest PTZ

### Tablet Characteristics

- **Compaction Force:** 17 kN
- **Tablet Diameter:** 13 mm
- **Tablet weight:** 800 mg
- **Crushing Strength:** 80 N
- **Friability:** 1.0 %
- **Disintegration Time:** 15 s

### Disclaimer:

The information provided is based on thorough research and is believed to be completely reliable. Application suggestions are given to assist our customers, but are for guidance only. Circumstances in which our material is used vary and are beyond our control. Therefore, we cannot assume any responsibility for risks or liabilities, which may result from the use of this technical advice.