**Task:**

<table>
<thead>
<tr>
<th>Application field:</th>
<th>Food</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>Potatoes</td>
</tr>
<tr>
<td>Feed size:</td>
<td>0-120 mm</td>
</tr>
<tr>
<td>Feed quantity:</td>
<td>1200 g</td>
</tr>
<tr>
<td>Material specification(s):</td>
<td>soft, liquid</td>
</tr>
<tr>
<td>Customer requirement(s):</td>
<td>homogeneous sample</td>
</tr>
<tr>
<td>Subsequent analysis:</td>
<td>Determination of pesticides</td>
</tr>
</tbody>
</table>

**Solution:**

<table>
<thead>
<tr>
<th>Selected instrument(s):</th>
<th>Knife Mill Grindomix GM 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration(s):</td>
<td>Cutting container of plastic incl. knife holder, autoclavable, 5 litres for GM 300; Gravity lid of plastic with overflow channels GM 300, autoclavable; Standard knife GM 300 made of stainless steel, autoclavable</td>
</tr>
<tr>
<td>Parameter(s):</td>
<td>Revolution speed Pre-grinding 1500 rpm, direction cut Fine-grinding 3000 rpm, direction cut</td>
</tr>
<tr>
<td>Time:</td>
<td>30 s (each for pre- and fine-grinding)</td>
</tr>
<tr>
<td>Achieved result(s):</td>
<td>Homogeneous sample, &lt; 1 mm</td>
</tr>
<tr>
<td>Remark(s):</td>
<td>Pre-grinding for 30 sec at 1500 rpm with gravity lid locked in top position to a size of approx. 5 - 10 mm. Fine grinding for additional 30 sec at 3000 rpm with lowered gravity lid.</td>
</tr>
<tr>
<td>Recommendation:</td>
<td>The Knife Mill Grindomix GM 300 is suitable to homogenize the sample material under the above mentioned conditions.</td>
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</table>
Pictures of the sample

**Fig. 1:** Original sample potatoes

**Fig. 2:** Potatoes after fine-grinding in GM 300