Task:

<table>
<thead>
<tr>
<th>Application field:</th>
<th>Food</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>Coriander</td>
</tr>
<tr>
<td>Feed size:</td>
<td>0-2 mm</td>
</tr>
<tr>
<td>Feed quantity:</td>
<td>26 g</td>
</tr>
<tr>
<td>Material specification(s):</td>
<td>fatty, agglomerate</td>
</tr>
<tr>
<td>Customer requirement(s):</td>
<td>Particle measurement with sieve analysis</td>
</tr>
<tr>
<td>Subsequent analysis:</td>
<td>not defined</td>
</tr>
</tbody>
</table>

Solution:

<table>
<thead>
<tr>
<th>Selected instrument(s):</th>
<th>Sieve Shaker AS 200 control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration(s):</td>
<td>Collecting pan stainless steel, 200 mm ø, height 50 mm; Analytical sieves after DIN 3310-1, 200 mm ø, height 50 mm: 4.0 / 2.0 / 1.0 / 0.5 / 0.315 / 0.250 mm</td>
</tr>
<tr>
<td>Parameter(s):</td>
<td>Amplitude 1.3 mm; interval 10 s</td>
</tr>
<tr>
<td>Time:</td>
<td>3 min.</td>
</tr>
<tr>
<td>Achieved result(s):</td>
<td>s. sieve protocols attached</td>
</tr>
<tr>
<td>Remark(s):</td>
<td>Without the usage of sieving aids like petroleum benzine a reproducible, reliable result is not achievable: Therefore the sample must first be degreased in petroleum benzine, then separated from the solvent by a filter and afterwards be dried.</td>
</tr>
</tbody>
</table>

Recommendation: The Sieve Shaker AS 200 control is suitable to analyse the sample material under the above mentioned conditions.
Coriander, coarse

<table>
<thead>
<tr>
<th>Size class [mm]</th>
<th>p3 [%]</th>
<th>Q3 [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 0.250</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>0.250 - 0.315</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>0.315 - 0.500</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>0.500 - 1.000</td>
<td>30.7</td>
<td>30.9</td>
</tr>
<tr>
<td>1.000 - 2.000</td>
<td>68.9</td>
<td>99.9</td>
</tr>
<tr>
<td>2.000 - 4.000</td>
<td>0.0</td>
<td>99.9</td>
</tr>
<tr>
<td>&gt; 4.000</td>
<td>0.1</td>
<td>100.0</td>
</tr>
</tbody>
</table>
Coriander (fine) without any sieving aids, particle distribution shows agglomerates

<table>
<thead>
<tr>
<th>Size class [mm]</th>
<th>p3 [%]</th>
<th>Q3 [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 0.250</td>
<td>1.9</td>
<td>1.9</td>
</tr>
<tr>
<td>0.250 - 0.315</td>
<td>5.3</td>
<td>7.2</td>
</tr>
<tr>
<td>0.315 - 0.500</td>
<td>35.0</td>
<td>42.2</td>
</tr>
<tr>
<td>0.500 - 1.000</td>
<td>29.3</td>
<td>71.5</td>
</tr>
<tr>
<td>1.000 - 2.000</td>
<td>17.1</td>
<td>88.6</td>
</tr>
<tr>
<td>2.000 - 4.000</td>
<td>9.9</td>
<td>98.5</td>
</tr>
<tr>
<td>&gt; 4.000</td>
<td>1.5</td>
<td>100.0</td>
</tr>
</tbody>
</table>
Coriander (fine) with 8g of talcum

<table>
<thead>
<tr>
<th>Size class [mm]</th>
<th>p3 [%]</th>
<th>Q3 [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 0.250</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>0.250 - 0.315</td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>0.315 - 0.500</td>
<td>4.4</td>
<td>4.6</td>
</tr>
<tr>
<td>0.500 - 1.000</td>
<td>87.2</td>
<td>91.8</td>
</tr>
<tr>
<td>1.000 - 2.000</td>
<td>7.9</td>
<td>99.7</td>
</tr>
<tr>
<td>2.000 - 4.000</td>
<td>0.3</td>
<td>100.0</td>
</tr>
<tr>
<td>&gt; 4.000</td>
<td>0.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>
Coriander (fine) degreased with petroleum benzene

<table>
<thead>
<tr>
<th>Size class [mm]</th>
<th>p3 [%]</th>
<th>Q3 [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 0.250</td>
<td>78.4</td>
<td>78.4</td>
</tr>
<tr>
<td>0.250 - 0.315</td>
<td>2.2</td>
<td>80.6</td>
</tr>
<tr>
<td>0.315 - 0.500</td>
<td>9.4</td>
<td>89.9</td>
</tr>
<tr>
<td>0.500 - 1.000</td>
<td>7.2</td>
<td>97.1</td>
</tr>
<tr>
<td>1.000 - 2.000</td>
<td>2.2</td>
<td>99.3</td>
</tr>
<tr>
<td>2.000 - 4.000</td>
<td>0.7</td>
<td>100.0</td>
</tr>
<tr>
<td>&gt; 4.000</td>
<td>0.0</td>
<td>100.0</td>
</tr>
</tbody>
</table>

The application report is based solely on the processing of the available sample material in the indicated amount. No legal claims shall be derived from this test report. Subject to technical modification and errors.

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Comparison of Coriander (fine) with different methods

Graph:

Comparison of Coriander (fine) with different methods