Cereus-Selektivagar nach Mossel (MYP-Agar)

**Shorthand symbol:** MYP

**Item number:** 40-1291

**Format:** Petri Dish, 90mm

**Colour:** Orange

**Storage conditions:** Keep away from light at constant temperature; at 4 – 10°C.

**Shelf-life:** 2 Months

**pH:** 7.2 ± 0.2 at 25°C

### Intended use and fields of application

Used for the determination of the colony count, and for the detection and isolation of Bacillus cereus from foodstuffs.

Bacillus Cereus Agar (Mossel) is used for growing and isolation of Bacillus cereus, which causes food toxifications. The meat extract supplies vitamins and growth factors to Bacillus cereus. Peptone supplies nitrogen, vitamins and aminoacids. Sodium chloride keeps the medium osmotic balance. D-mannitol is present as fermentable carbohydrate and phenol red as pH indicator.

### Typical composition in g/l

<table>
<thead>
<tr>
<th>in g per 1l Medium</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein peptone</td>
<td>10</td>
</tr>
<tr>
<td>Meat extract</td>
<td>1</td>
</tr>
<tr>
<td>D(-)-Mannitol</td>
<td>10</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>10</td>
</tr>
<tr>
<td>Phenol red</td>
<td>0.025</td>
</tr>
<tr>
<td>Agar</td>
<td>12</td>
</tr>
</tbody>
</table>

*Adjusted as required to meet performance standards
Microbiological quality control

The Microbiological Performance Test is carried out in accordance with the requirements of ISO 11133.

**Productivity**
Incubation conditions: 24±3 to 44±4 hours at 30±1°C; Inoculum concentration: 80–120 CFU

<table>
<thead>
<tr>
<th>Organism</th>
<th>Type Strain</th>
<th>Specification</th>
<th>Colony morphology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacillus cereus</td>
<td>ATCC 11778/WDCM 00001</td>
<td>&gt; 50 %</td>
<td>red colonies with Precipitation</td>
</tr>
</tbody>
</table>

**Selectivity**
Incubation conditions: 44±4 hours at 30±1°C; Inoculum concentration: 10,000–1,000,000 CFU

<table>
<thead>
<tr>
<th>Organism</th>
<th>Type Strain</th>
<th>Specification</th>
<th>Colony morphology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escherichia coli</td>
<td>ATCC 8739/WDCM 00012</td>
<td>Complete inhibition</td>
<td>-</td>
</tr>
</tbody>
</table>

**Specificity**
Incubation conditions: 44±4 hours at 30±1 °C; Inoculum concentration: 1,000–10,000 CFU

<table>
<thead>
<tr>
<th>Organism</th>
<th>Type Strain</th>
<th>Specification</th>
<th>Colony morphology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacillus subtilis</td>
<td>ATCC 6633/WDCM 00003</td>
<td>Good growth</td>
<td>yellow colonies without Precipitation</td>
</tr>
</tbody>
</table>

**Mikробial Contamination**
Incubation conditions: 5–7 days, 20–25°C and 5–7 days, 30–35°C

**Specification**
No microbial contamination