# RS Enhanced 90 mm CSG

| | Technical Data |
|---|---|
| **Use in** | • Pharmaceutical industry in clean rooms and isolators<br>• For industrial, laboratory & research applications only |
| **Use for** | • Reduction of swarming behaviour of micro-organisms<br>• Detection of aerobic and anaerobic micro-organisms<br>• Contact sampling, personnel monitoring, as well as active air monitoring<br>• Isolation and growth of fastidious bacteria, yeasts and moulds<br>• Neutralization of residues of disinfectants |
| **Typical composition per liter** | Proteose peptones<br>Casein hydrolysate<br>Yeast extract<br>Glucose<br>Starch<br>$K_2HPO_4$<br>Na-pyruvate<br>$MgSO_4$ (anhydrous)<br>Lecithin<br>Polysorbate 80<br>Neutralizer PLUS<br>Agar<br><br>The basic composition of the medium is modified to reduce swarming activity. |
| **Irradiation** | • Irradiated at 9 – 20 kGy |
| **Filling volume** | • 28 – 32 mL |
| **Packaging** | • Triple bagged, staples of 10 plates<br>• Transparent<br>• High barrier foil for $H_2O_2$ as well as for water-vapor<br>• 6 staples of 10 plates per packaging unit<br>• Temperature isolated handle-bag in the cardboard-boxes |
| **Plates per box** | • 60 plates (6 staples with 10 plates each) |
| **Shelf life** | • 9 months from production date |
| **Storage conditions** | • Recommended storage temperature: 15 – 25 °C<br>• Should be stored at temperatures as stable as possible<br>• Avoid prolonged exposure to direct sunlight<br><br>• Before use: it is recommended to keep the plates upright (agar on the lower part, lid on the upper part) to avoid formation of extra condensation<br>• After use: it is recommended to keep the plates upside down (agar on the upper part, lid on the lower part) to reduce the risk of accumulation of condensation during incubation which can affect colony formation |
| **Label** | • On the side, at the bottom |
| **Label information** | • Product name: RS enh.<br>• Expiry date: YYYYMMMDD ➔ MMM in letters (e.g.: 2026Nov04)<br>• Lot-number<br>• Individual number<br>• Barcode |

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| **Barcode** | • 2-dimensional (data matrix), 20 digits:<br>• Digits 1-3: Art.-No.<br>• Digits 4-9: Lot-Number<br>• Digits 10-14: Individual-Number<br>• Digits 15-20: Date (YYMMDD) |
| **Delivery** | • Temperature controlled delivery on request<br>• For shipments of larger amounts plastic pallets in Euro-size can be used |
| **Petri dish** | • Locking lid 90 mm plate, made from polystyrene<br>• Long incubations possible – due to high filling volume<br>• Long expositions possible – due to specific design of plate<br>• Incubations in vent and closed position possible |
| **Lid positions** | • All plates are delivered in the non-locked position<br>• The plate contains 2 locked positions. If turning the lid clockwise the locked positions are in the following order:<br>1. Vent position<br>2. Closed position<br>• Please check the recommendations for use on page 4 |
| **Reduction of swarming behaviour** | Pharmaceutical manufacturers frequently encounter so-called swarming bacteria during hygiene monitoring in cleanroom areas. Swarming behaviour is common among species of genera like *Pseudomonas, Bacillus, Vibrio, Proteus* and others. If the swarmer covers most of the agar plate, a reliable count is not possible. For example, a swarmer has the potential to overgrow other micro-organisms. In a worst-case scenario, the presence of a swarmer results in a plate that cannot be analysed.<br>The “RS enhanced” medium is capable of significantly reduce the swarming behaviour of most tested fast-spreading strains (e.g., *Proteus mirabilis*, *Bacillus subtilis*, *Bacillus thuringiensis*).<br>In addition, the “RS enhanced” medium is capable of an outstanding inactivation of all typically used disinfectants including even high concentrations of quaternary ammonium compounds, benzalkonium compounds and biguanides thereby enabling the obtainment of reliable results for the environmental monitoring. |
| **Place of production** | PharmaMedia Dr. Müller GmbH<br>Gustav-Throm-Str. 1, 69181 Leimen - Germany |

<table>
<tr><th></th><th>Quality control, Certificates</th></tr>
<tr><td>Certificates</td><td>
Every batch of product can be obtained with a certificate of analysis (CoA):
<table>
<tr><td colspan="6">Physico-chemical test parameters:</td></tr>
<tr><td>Appearance</td><td colspan="5">Clear to slightly turbid, yellowish</td></tr>
<tr><td>pH value</td><td colspan="5">7.1 – 7.5</td></tr>
<tr><td>Filling volume</td><td colspan="5">28 – 32 mL</td></tr>
<tr><td>Irradiation</td><td colspan="5">9 – 20 kGy</td></tr>
<tr><td colspan="6"></td></tr>
<tr><td colspan="6">Growth Promotion test: 10 – 100 CFU</td></tr>
<tr><td>S. aureus</td><td>ATCC 6538</td><td>30-35 °C</td><td>2-3 days</td><td>50-200%</td></tr>
<tr><td>P. paraeruginosa</td><td>ATCC 9027</td><td>30-35 °C</td><td>2-3 days</td><td>50-200%</td></tr>
<tr><td>B. spizizenii</td><td>ATCC 6633</td><td>30-35 °C</td><td>2-3 days</td><td>50-200%</td></tr>
<tr><td>C. albicans</td><td>ATCC 10231</td><td>30-35 °C</td><td>3-5 days</td><td>50-200%</td></tr>
<tr><td>A. brasiliensis</td><td>ATCC 16404</td><td>30-35 °C</td><td>3-5 days</td><td>50-200%</td></tr>
<tr><td colspan="6"></td></tr>
<tr><td colspan="6">Inhibition test: 10 – 100 CFU</td></tr>
<tr><td>B. cereus</td><td>ATCC 14579</td><td>30-35 °C</td><td>3-5 days</td><td colspan="2">Colony size < 50%</td></tr>
<tr><td colspan="6"></td></tr>
<tr><td colspan="5">Sterility control</td><td>No growth</td></tr>
</table>
</td></tr>
<tr><td>Certificate of origin</td><td>
All media lots produced by PMM can be obtained with a Certificate of Origin (CoO). All animal derived raw materials are specified as follows:
<ul>
<li>Raw material</li>
<li>Tissue</li>
<li>Animal source</li>
<li>Country of origin</li>
<li>Infectivity category (acc. to TSE guideline: EMA/410/01 current version)</li>
</ul>
</td></tr>
<tr><td>BSE policy</td><td>
In compliance with the current note for guidance on minimizing the risk of transmitting animal spongiform encephalopathy via human or veterinary medicinal products, we check the CoO of raw material in respect to the specified animal source, the country of origin and the infectivity category. We neither store or process ruminant raw materials obtained from high infectivity tissues (IA) nor ruminant raw materials whose animal source originates from countries or regions with an undetermined risk (cat C/GBR IV).
</td></tr>
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| | Recommendations for use |
|---|---|
| **Aerobic incubation** | • The closed position provides ideal incubation conditions for aerobic microorganisms<br>• Limits the dehydration of the agar during incubation<br>• For long incubation of aerobic microorganisms, the closed position is recommended<br>To lock the lid in the closed position, turn the lid clockwise into the final stop position |
| **Anaerobic incubation** | • The vent position is ideal for anaerobic incubations, as it allows an easy and effective removal of oxygen under anaerobic incubation conditions<br>• Incubate in anaerobic incubator, anaerobic jar or suitable equipment<br><br>1. First option:<br>• Turn the lid clockwise into the final stop position<br>• Turn the lid one click counterclockwise to the vent position<br><br>2. Second option:<br>Turn the lid clockwise directly into the first locked position |

| | Safety Data |
|---|---|
| **Toxic ingredients** | • None |
| **Basic composition** | • See typical composition |
| **Solvent content** | • None |
| **Safety data sheet required** | • Not mandatorily required |