CHROMagar™ MRSA
Product codes: MR500 & MR502

MEDIUM PURPOSE
Chromogenic medium for the isolation and differentiation of Methicillin Resistant Staphylococcus aureus (MRSA).

COMPOSITION
The product is composed of a powder base and 1 supplement.

<table>
<thead>
<tr>
<th>Product</th>
<th>Base</th>
<th>Supplement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total g/L</td>
<td>82.5 g/L</td>
<td></td>
</tr>
<tr>
<td>Composition g/L</td>
<td></td>
<td>Agar 15.0 Peptones and yeast extract 40.0 Salts 25.0 Chromogenic mix 2.5</td>
</tr>
</tbody>
</table>

Aspect
Powder Form
Freeze dried vial

STORAGE
15-30°C
2-8°C

FINAL MEDIA pH
6.9 +/- 0.2

PREPARATION (Calculation for 1L)

Step 1
Preparation of the base
CHROMagar MRSA base (B)
- Disperse slowly 82.5g of powder base in 1L of purified water.
- Stir until agar is well thickened.
- Autoclave at 110°C during 5 min.
- DO NOT AUTOCLAVE AT 121°C. DO NOT HEAT LONGER THAN 5 MIN.
- Cool in a water bath to 45-50°C.
- Swirl or stir gently to homogenize.

Step 2
Preparation of the Supplement (S)
- For reconstitution, aseptically rehydrate CHROMagar MRSA supplement ref SU620 with 20.0ml of sterile water.
- Mix slowly.
- Add 1mL of CHROMagar MRSA supplement to the prepared CHROMagar MRSA medium (Step1).

Step 3
Pouring
- Pour into sterile Petri dishes.
- Let it solidify and dry.

Storage
- Store in the dark before use.
- Prepared media plates can be kept for one day at room temperature.
- Plates can be stored for up to one month under refrigeration (2/8°C) if properly prepared and protected from light and dehydration.
- Advice 2: If not fully used, rehydrated CHROMagar MRSA supplement can be stored one week at 2-8°C or up to 2 months at -20°C.

INOCULATION
Related samples can be processed by direct streaking on the plate, as well as prior appropriate enrichment step.
- If the agar plate has been refrigerated, allow to warm to room temperature before inoculation.
- Streak sample onto plate.
- Incubate in aerobic conditions at 37°C for 18-24 hours.
**Interpretation**

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Typical colony appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRSA</td>
<td>pink to mauve</td>
</tr>
<tr>
<td>MSSA</td>
<td>inhibited</td>
</tr>
<tr>
<td>Other bacteria</td>
<td>inhibited, colourless, blue</td>
</tr>
</tbody>
</table>

**Limitations**

- Definite identification as MRSA requires, in addition, a final identification as *S. aureus*.

**Quality Control**

Please perform Quality Control according to the use of the medium and the local QC regulations and norms.

Good preparation of the medium can be tested, isolating the ATCC strains below:

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Typical colony appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>MR S. aureus ATCC® 33592</em></td>
<td>mauve</td>
</tr>
<tr>
<td><em>MS S. aureus ATCC® 25923</em></td>
<td>inhibited</td>
</tr>
<tr>
<td><em>P. aeruginosa ATCC® 9027</em></td>
<td>inhibited</td>
</tr>
<tr>
<td><em>E. faecalis ATCC® 29212</em></td>
<td>inhibited</td>
</tr>
<tr>
<td><em>E. coli ATCC® 25922</em></td>
<td>inhibited</td>
</tr>
<tr>
<td><em>C. albicans ATCC® 10231</em></td>
<td>inhibited</td>
</tr>
</tbody>
</table>

**Warnings**

- Do not use plates if they show any evidence of contamination or any sign of deterioration.
- Do not use the product beyond its expiry date or if product shows any evidence of contamination or any sign of deterioration.
- For Research Use Only. Not for use in Diagnostic Procedure. Performance has not been established. This laboratory product should be used only by trained personnel in compliance with good laboratory practices.
- Any change or modification in the procedure may affect the results.
- Any change or modification of the required storage temperature may affect the performance of the product.
- Unappropriate storage may affect the shelf life of the product.
- Recap the bottles/vials tightly after each preparation and keep them in a low humidity environment, protected from moisture and light.
- For a good microbial detection: collection and transport of specimen should be well handled and adapted to the particular specimen according to good laboratory practices.

**Disposal of Waste**

After use, all plates and any other contaminated materials must be sterilized or disposed of by appropriate internal procedures and in accordance with local legislations. Plates can be destroyed by autoclaving at 121°C for at least 20 minutes.

**References**

Please contact DRG for further information.

**IFU/Label Index**

- Quantity of powder sufficient for X liters of media
- Expiry date
- Required storage temperature
- Store away from humidity

**CHROMagar MRSA MR500 & MR502**

<table>
<thead>
<tr>
<th>Pack Size</th>
<th>Ordering References</th>
<th>Base (B)</th>
<th>Supplement (S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 ml</td>
<td>MR500</td>
<td>MR500</td>
<td>SU620</td>
</tr>
<tr>
<td></td>
<td></td>
<td>weight: 82.5gr</td>
<td></td>
</tr>
<tr>
<td>5000 ml</td>
<td>MR502</td>
<td>MR502</td>
<td>SU620</td>
</tr>
<tr>
<td></td>
<td></td>
<td>weight: 412.5gr</td>
<td></td>
</tr>
</tbody>
</table>

**Need some Technical Documents?**

- Certificate of Analysis (CoA) -> One per Lot
- Material Safety Data Sheet (MSDS)

**CHROMagar** and **Rambach** are trademarks created by Dr A. Rambach - ATCC® is a registered trademark of the American Type Culture Collection

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