MEDIUM PURPOSE
Chromogenic medium for detection of *Acinetobacter* and MDR *Acinetobacter* sp.

COMPOSITION
The product is composed of a powder base and 2 supplements.

<table>
<thead>
<tr>
<th>Product</th>
<th>Base (B)</th>
<th>Supplement (S)</th>
<th>MDR Supplement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total g/L</td>
<td>32.8 g/L</td>
<td>4 ml/L</td>
<td>5 vials</td>
</tr>
<tr>
<td>Composition g/L</td>
<td></td>
<td>Growth and regulator factors</td>
<td>(1 vial = qsf 1000ml of final media)</td>
</tr>
<tr>
<td>Aspect</td>
<td>Powder Form</td>
<td>Liquid Form</td>
<td>freeze dried vials</td>
</tr>
<tr>
<td>STORAGE</td>
<td>15-30°C</td>
<td>15-30°C</td>
<td>2-8°C</td>
</tr>
<tr>
<td>FINAL MEDIA pH</td>
<td>7.0 +/- 0.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PREPARATION (Calculation for 1L)

**Step 1 Preparation**
- Disperse slowly 32.8 g of powder base in 1L of purified water.
- Add 4.0 ml of the liquid supplement AC092(S) into slurry.
- Stir until agar is well thickened.
- Heat and bring to boil (100°C) while swirling or stirring regularly.

**WARNING 1:** If using an autoclave, do so without pressure.

**ADVICE:** in case of product samples containing a high load of Pseudomonas and/or Aeromonas, Cefsulodin can be added at 5 mg/L.

- Cool in a water bath to 45-50°C, swirling or stirring gently.

**Step 2 Optional**
- Rehydrate one vial with 5ml of purified water.
- Add 5ml of this solution to the melted mix (step 1) at 45-50°C.
- Stir well for homogenization.

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

**WARNING 2:** Slight variation of the media colouration after solidification can be observed, from yellowish to light orange.

**Step 3 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:** MDR supplement solution can be re-used up to 2 weeks if properly stored at 2/8°C

OPTION: If screening is focused on MDR *Acinetobacter*, add the MDR Selective supplement ref CR102 as following:

**HELPING CALCULATION**
- 1 L final media --> Use 1 vial
- 5 L final media --> Use 5 vials

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.

**Typical Samples**
- e.g. stools, urine, wounds
- Possible enrichment step
- Direct streaking or spreading technique
**INTERPRETATION**

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Typical colony appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Acinetobacter</em> sp.</td>
<td>Red</td>
</tr>
<tr>
<td>Other gram (-)</td>
<td>Mostly inhibited or blue</td>
</tr>
<tr>
<td>Gram(+) bacteria &amp; yeasts</td>
<td>Mostly inhibited</td>
</tr>
</tbody>
</table>

**CHROMagar Acinetobacter with MDR Selective supplement**

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Typical colony appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDR <em>Acinetobacter</em></td>
<td>Red</td>
</tr>
<tr>
<td>Non-MDR <em>Acinetobacter</em></td>
<td>Mostly inhibited</td>
</tr>
<tr>
<td>Other gram (-)</td>
<td>Mostly inhibited</td>
</tr>
<tr>
<td>Gram(+) bacteria &amp; yeasts</td>
<td>Inhibited</td>
</tr>
</tbody>
</table>

**LIMITATIONS**

- Final identification may require additional testing such as biochemical or immunological test: Latex agglutination confirmation test can be performed directly from the plates on suspected colonies.
- Some Enterobacteriaceae strains may grow as blue to metallic blue colonies. Especially in presence of the MDR Selective supplement these strains should be considered as potentially harboring multi-drug resistance.
- Some other non-fermenting gram negative strains such as *Pseudomonas* sp. or *Stenotrophomonas* sp. can display similar colouration appearance as *Acinetobacter*.

These bacteria, well-known to be frequently Multi-Drug Resistant, can grow even in presence of the MDR Selective supplement.  
- *Pseudomonas* strains can be easily differentiated performing an oxidase test.  
- *Stenotrophomonas* strains can be easily distinguished as forming tiny colonies at 18-24h.  
- Definite *Acinetobacter* identification may require additional confirmatory testing.  
- Definite MDR characterisation may require additional susceptibility testing.

**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:

**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 propriate internal procedures and in accordance with local legislations. Plates can be destroyed by autoclaving at 121°C for at least 20 minutes.

**REFERENCES**

Please refer to our website page «Publications» for scientific publications about this particular product.

**Web link:** http://www.chromagar.com/publication.php

**IFU/LABEL INDEX**

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

<table>
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<tr>
<th>Base (B)</th>
<th>Supplement (S)</th>
</tr>
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<tbody>
<tr>
<td>AC092(B)</td>
<td>AC092(S)</td>
</tr>
<tr>
<td>Weight: 164gr</td>
<td>Volume: 20ml</td>
</tr>
</tbody>
</table>

**Pack Size**

- 5000 ml = 250 Tests of 20ml
- 5000 ml = MDR suppl. (optional)

**CHROMagar**™ and Rambach™ are trademarks created by Dr. A. Rambach  
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