

CHROMagar™ Acinetobacter

Instructions For Use
For Research Use Only (RUO).
Not for use in diagnostic procedures.

ENGLISH

Instructions For Use

MEDIUM PURPOSE

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

COMPOSITION

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

Product	=	Base (B)	Supplement (S)	OPTIONAL MDR Supplement
Total g/L		32.8 g/L	4 ml/L	
Composition g/L		Agar 15.0 Peptone and yeast extract 12.0 Salts 4.0 Chromogenic mix 1.8	Growth and regulator factors	5 vials (1 vial = qsf 1000ml of final media)
Aspect		Powder Form	Liquid Form	freeze dried vials
STORAGE		15-30°C	15-30°C	2-8°C
FINAL MEDIA pH		7.0 +/- 0.2		

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.
DO NOT HEAT TO MORE THAN 100°C. DO NOT AUTOCLAVE AT 121°C..
- 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.

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

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.

HELPING CALCULATION

1 L final media --> Use 1 vial media

5 L final media --> Use 5 vials media

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.

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

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

CHROMagar™ Acinetobacter

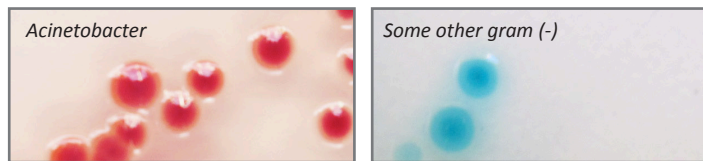
INTERPRETATION

Microorganism	Typical colony appearance
<i>Acinetobacter</i> sp.	→ Red
Other gram (-)	→ Mostly inhibited or blue
Gram(+) bacteria & yeasts	→ Mostly inhibited

CHROMagar Acinetobacter with MDR Selective supplement

MDR <i>Acinetobacter</i>	→ Red
Non-MDR <i>Acinetobacter</i>	→ Mostly inhibited
Other gram (-)	→ Mostly inhibited
Gram(+) bacteria & yeasts	→ inhibited

Typical colony appearance



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 oxydase 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:

Σ Pack Size

5000 ml

250 Tests of 20ml

Ordering References

AC092

5000 ml

CR102

Microorganism	Typical colony appearance
<i>Acinetobacter baumannii</i> ATCC® 19606	→ red
<i>Acinetobacter calcoaceticus</i> ATCC® 51432	→ red
<i>E. faecalis</i> ATCC® 29212	→ inhibited
<i>C. tropicalis</i> ATCC® 1369	→ inhibited

CHROMagar Acinetobacter with MDR Selective supplement

<i>Acinetobacter baumannii</i> ATCC® 19606	→ inhibited
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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 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

Base (B)

Supplement (S)

AC092(B)
Weight: 164gr

AC092(S)
Volume: 20ml

MDR suppl. (optional)

CHROMagar™ and Rambach™ are trademarks created by Dr. A. Rambach
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CHROMagar
The Chromogenic Media Pioneer

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