

CHROMAGAR MRSA

INTENDED USE:

Chromogenic medium for the isolation and differentiation of Methicillin Resistant Staphylococcus aureus (MRSA). The major issue with this pathogen is its resistance to a large panel of antibiotics, among them beta-lactam antibiotics, limiting the therapeutic options for clinicians.

PRINCIPLE AND INTERPRETATION:

Nutrient medium is a general basic culture medium for less fastidious microorganisms. Meat extract, yeast extract and peptone provide nitrogen, vitamins, amino acids and carbon for growth. Sodium chloride ensure osmotic balance.

COMPOSITION:

Ingredients	Gr/Liter
Peptones and yeast extract	40 gr
Salts	25 gr
Chromogenic mix	2,5 gr
MRSA Supplement	1 ml
Agar	15 gr

***Formula adjusted, standardized to suit performance parameters

pH: 6,9 ± 0,2

PRECAUTIONS:

For professional use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

TEST PROCEDURE:

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

QUALITY CONTROL:**1.Sterility Control:**

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

2.Physical/Chemical Control

pH: 6,9 ± 0,2

Apperance: Light amber

3.Microbiological Control: Incubation at 37 °C during 24 h.

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Staphylococcus aureus ATCC 43300	10-100	Growth	mauve
Staphylococcus aureus ATCC 25923	100-1000	Inhibition	-
Enterococcus faecalis ATCC 29212	100-1000	Inhibition	-
Pseudomonas aeruginosa ATCC 27853	100-1000	Inhibition	-
E.coli ATCC 25922	100-1000	Inhibition	-
Candida albicans ATCC 10231	100-1000	Inhibition	-

STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at 2 - 12°C. Use before expiry date on the label. Do not use beyond stated expiry date.

DISPOSAL:

Incubated prepared medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected plate should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

PACKAGING:

Katalog Number: 02015

Packaging: Single wrap

Content: 10 plates/each package

REFERENCES:

1. Detection of Staphylococcus Aureus and Methicillinresistant Staphylococcus Aureus (MRSA) from human clinical specimens using conventional biochemical tests and Chromogenic media 2014 Abdulameer Abdullah Al-Mussawi Indian Journal of Applied Research
2. Evaluation of a new CHROMagar Medium for Detection of Methicillin Resistant Staphylococcus aureus 2011 Mohammad Rahbar, Department of Microbiology, Milad Hospital, Tehran, Iran Pakistan Journal of Biological Sciences 11(3) : 496-498, 2008.
3. Performance of CHROMagar MRSA medium for detection of Methicillin-Resistant Staphylococcus aureus.2005 Diederer B, van Duijn I., van Belkum A., van Keulen P., Kluytmans J. 2005. Journal of Clinical Microbiology, 4 : 1925-1927.
4. Evaluation of CHROMagar MRSA for detection of Methicillin-resistant Staphylococcus aureus.2005 Corso A., Gagetti P., Rodriguez M., Galas M. 2005. Poster presented during 2005 ICAAC meeting at San Francisco (USA).
5. Evaluation of a new chromogenic medium for isolation and presumptive identification of methicillin-resistant Staphylococcus aureus from human clinical specimens 2006 Loulergue J., et al. 2006. European Journal of Clinical Microbiology and Infectious Diseases.

STERILE A

Aseptic Sterile

LOT

Batch Code

REF

Catalogue Number

CONTROL -

Negative Controls

CONTROL +

Positive Controls



Use by



Temperature
Limitation



Do not reuse



Contains sufficient
for <n> tests



Look at user manual



Manufacturer