

**MM0426**

**MRSA agar -Chromogenic  
Staphylococcus aureus Identification agar**

**Use and description:**

Medium for primary differentiation and identification of Methicillin resistant Staphylococcus aureus strains. The medium uses different substrates to detect specific enzyme activities. Methicillin resistance coagulase negative staphylococcus (other than aureus) will grow with different color (grey-blue or white).

**Composition per liter:**

Chromogenic mix.....4.0 g  
Agar..... .13.0 g  
Peptones.....22.0 g  
Salt mix.....25.0 g  
Meat extract.....3.0 g  
Mineral supplement.....1.8 g

**Final pH of the ready to use medium:** 6.3±0.2 at 25.0 °C

**Medium preparation:**

Add 68,8 grams of dehydrated culture medium to 1 liter of distilled water. Add 2 vials of Growth supplement. Mix thoroughly. Heat with intensive agitation and boil for 1 min. Autoclave for 15 min at 121°C. Cool to 45-50 °C with very intensive mixing and add 1 vial of Selective supplement to every 500 ml medium. Pour into sterile petri dishes.

**Quality specifications:**

1. The powder is homogeneous, free flowing and light beige.
2. Ready to use medium: amber-colored, clear-slightly opalescent agar

**Microbiological response after 18-24 hours at 35-37 °C:**

<b>Organism</b>	<b>Growth</b>	<b>Colony / Colour</b>
Staphylococcus aureus ATCC 43330	Good	1.5-2 mm deep magenta colonies with magenta halo
Staphylococcus epidermidis ATCC12228	inhibited	Very small magenta colonies
Staphylococcus aureus ATCC 25923	Inhibited	-
Staphylococcus saprophyticus ATCC 15305 Without selective supplement	Inhibited growth	- Blue colonies
E.coli ATCC 25922	inhibited	-
Proteus mirabilis ATCC12453	inhibited	-

**Storage:**

Store the sealed bottle containing the dehydrated medium at 2 to 30.0 °C. Once opened and recapped, place the container in a low humidity environment at the

same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original light beige color.

*Micromedia Chromo*