

CHROMagar™ Mastitis

Chromogenic medium for the isolation and differentiation of mastitis-involved pathogens

Composed by :
CHROMagar™ Mastitis GP : ref. X074
CHROMagar™ Mastitis GN : ref. X076

STORAGE • **Powders and liquid supplement** should be stored at 15/30°C until the shelflife date indicated on the label.

• **Prepared media plates** should be stored in the dark and can be kept for one day at ambient temperature or for up to two weeks under refrigeration (2/8°C) if properly prepared and protected from light and dehydration.

PRINCIPLE OF USE : Two different media to be prepared separately and poured in Petri dishes with two compartments:
→ one side with **CHROMagar™ Mastitis GP** for isolation and differentiation of the Gram positive flora,
→ the other one with **CHROMagar™ Mastitis GN**, for isolation and differentiation of the Gram negative and yeasts flora.

PREPARATION AND INTERPRETATION Please refer to specific information for each media as following.

INOCULATION If the agar plate has been refrigerated, allow to warm to room temperature before inoculation. Streak sample onto both sides of the plate and incubate at 37°C for 18-24 hours.

DISPOSAL OF WASTE After interpretation all plates should be destroyed by autoclaving at 121°C for at least 20 minutes.

English. For laboratory use. Laboratory product to be used only by trained personnel.

CHROMagar™ Mastitis GP, ref X074

Composed by :
CHROMagar™ Mastitis GP base: ref. X074B
CHROMagar™ Mastitis GP supplement: ref. X074S

COMPOSITION in g/L Agar 15.0; Peptone and yeast extract 20.0; Salts 5.0 ; Chromogenic and selective mix 4.4; pH: 6.9 +/- 0.2 (Classical formula adjusted and/or supplemented as required to meet performance criteria).

PREPARATION Suspend the powder base (X074B) in the proportion of 42.4 g/L of purified water. Add the liquid supplement (X074S) in the proportion of 2 g/L. Disperse slowly in water by rotating for swelling of the agar. Heat and bring to boiling (100°C) while swirling or stirring regularly. If using an autoclave, do so without pressure. DO NOT TO MORE THAN 100°C. The mixture may also be brought to a boil in a microwave oven: after initial boiling, remove from oven, stir gently, then return to oven for short repeated bursts of heating until complete fusion of the agar grains has taken place (large bubbles replacing foam). Cool in a water bath to 45-50°C, swirling or stirring gently. Pour into sterile Petri dishes or tubes and allow to gel and dry.

INTERPRETATION

Microorganism → Typical colony appearance

| | |
|-------------------------------|-------------------------|
| <i>Strep. agalactiae</i> | → blue-green |
| <i>Strep. uberis</i> | → metallic blue |
| <i>Staph. aureus</i> | → mauve with mauve halo |
| <i>Gram negative bacteria</i> | → inhibited |
| Other microorganism | → various |

LIMITATIONS Some *Enterococcus* strains may also develop a metallic blue colouration. Definite identification requires additional testing.

CHROMagar™ Mastitis GN, ref X076

COMPOSITION in g/L Agar 15.0; Peptone and yeast extract 17.0; Chromogenic and selective mix 1.2; pH: 7.0 +/- 0.2 (Classical formula adjusted and/or supplemented as required to meet performance criteria).

PREPARATION Suspend the medium in the proportion of 33.2 g/L of purified water. Disperse powder slowly in water by rotating for swelling of the agar. Heat and bring to boiling (100°C) while swirling or stirring regularly. If using an autoclave, do so without pressure. DO NOT TO MORE THAN 100°C. The mixture may also be brought to a boil in a microwave oven: after initial boiling, remove from oven, stir gently, then return to oven for short repeated bursts of heating until complete fusion of the agar grains has taken place (large bubbles replacing foam). Cool in a water bath to 45-50°C, swirling or stirring gently. Pour into sterile Petri dishes or tubes and allow to gel and dry.

INTERPRETATION

Microorganism → Typical colony appearance

| | |
|--|------------------------|
| <i>E. coli</i> | → red |
| <i>Klebsiella, Enterobacter, Citrobacter</i> | → metallic blue |
| <i>Proteus</i> | → brown halo |
| <i>Pseudomonas</i> | → cream, translucent |
| <i>C. albicans</i> | → white, opaque, small |
| <i>Gram positive bacteria</i> | → inhibited |

LIMITATIONS Sensitivity for *E. coli* is 99.3% (Merlino *et al.* 1996). The medium allows indole test for confirmation of *E. coli* and TDA test (with FeCl₃) for confirmation of *Proteus*. Definite identification requires additional testing.

Available from CHROMagar :

CHROMagar™ Candida
Differentiation of major pathogenic *Candida* species
CHROMagar™ Orientation
Differentiation of urinary tract pathogens
Rambach™ Agar
Detection of *Salmonella* spp
CHROMagar™ Salmonella
Detection of *Salmonella* including *S. Typhi*
CHROMagar™ Salmonella Plus
Detection of *Salmonella* according to the ISO 6579:2002 norm
CHROMagar™ O157
Detection of *E. coli* O157
CHROMagar™ E.coli
Detection and enumeration of *E. coli*
CHROMagar™ ECC
Detection and enumeration of *E. coli* and coliforms
CHROMagar™ Liquid ECC
Broth for pad technique for *E. coli*-coliforms
CHROMagar™ Staph aureus
Detection and enumeration of *Staphylococcus aureus*
CHROMagar™ MRSA
Detection of MRSA including low level MRSA
CHROMagar™ Listeria
Detection and enumeration of *Listeria monocytogenes*
CHROMagar™ Vibrio
Detection and enumeration of *Vibrio parahaemolyticus*, *Vibrio vulnificus* and *Vibrio cholerae*
CHROMagar™ VRE
Detection of *E. faecium* VRE & *E. faecalis* VRE

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Visit CHROMagar on internet via <http://www.chromagar.com>

CHROMagar
Microbiology

4, place du 18 Juin 1940
75006 Paris France
Fax: (33-1) 45 48 06 06

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