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 shelf life 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 protected and prepared 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, and differentiation of the Gram negative and yeasts flora.
- the other one with CHROMagar™ Mastitis GN, for isolation and differentiation of the Gram positive 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. Stirring the sample onto both sides of the plate and incubate at 37°C for 18-24 hours.

DISPOSAL OF WASTE After incubation, all plates should be disposed of 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

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  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°C, swirling or stirring gently. Pour into sterile Petri dishes or tubes and allow to gel and dry.

INTERPRETATION

Microorganism  Typical colony appearance
E.coli  red
Klebsiella, Enterobacter  blue-green
Citrobacter  metallic blue
Pseudomonas  mauve with mauve halo
Proteus  mauve with mauve halo
Staph. aureus  mauve with mauve halo
Staph. albus  blue-green
Gram negative bacteria  inhibited
Other microorganisms  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 swirlling 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
E.coli  metallic blue
Proteus  brown halo
Staph. aureus  mauve with mauve halo
Staph. albus  blue-green
Salmonella  white, opaque, small
Citrobacter  white, highly transparent
E.coli  metallic blue

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™ 0157
Detection of E.coli 0157

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 and 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 paraheamolyticus, Vibrio vulnificus and Vibrio cholerae

CHROMagar™ VRE
Detection of E.faecium VRE & E.Faecalis VRE

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