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CHROMagar Mastitis

Instructions for use

For in vitro diagnostic use

Cat No. AP-016

Description

A box containing 20 units, 20 ID labels and instructions for use.

The system comprises

A plastic tube

A plastic paddle with culture medium on both sides

Plastic cap

Storage

2-8⁰ C, protected from light

Composition (in g/L)

1. Side Mastitis Gram Positive

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

2. Side Mastitis Gram Negative

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).

Product limitations

The product yields reliable results, within usual limits of microbiology, when stored under the correct conditions and used strictly according to the instructions. The sensitivity is in the range of $5 \times 10^2 - 1 \times 10^3$ c.f.u. / ml.

Warning

Any visible contaminated or damaged unit is not to be used and must be disposed of as in paragraph 10 below.



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Instructions for CHROMagar Mastitis test with AP-016

Screen with: AP-016

1. Thoroughly clean the udder of the animal with water, followed by a tissue impregnated with adequate disinfectant solution.
2. Remove paddle from tube, holding it by the cap, and then place it in a stable safe area standing on its cap. DO NOT TOUCH agar's surface.
3. Fill 2:3 of the plastic tube with the milk sample, (either directly from the teat or from milk tank being tested).
4. Dip paddle into the milk in the tube, allowing excess milk to spill over. If there is not enough milk in the tube, screw the cap tightly and invert the tube completely in order to cover the all agar surface.
5. Hold the tube vertically with one hand, remove the paddle with the other hand, holding it by the cap. Discard all the milk in the tube and shake it well to remove as much excess milk as possible. Gently, flick the paddle to remove the excess milk on it.
6. Replace the paddle into the tube and screw the cap back loosely to allow exchange of atmosphere.
7. Write all relevant details on the HY-ID label provided and stick on tube.
8. Incubate AP-016 for 48 hours at 35-37°C.
9. Interpretate results as in table.
10. Used contaminated test material should be handled by standard decontamination methods such as autoclaving, incineration or by commercial bleach (hypochlorite), prior to disposal.



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TABLE OF INTERPRETATION OF RESULTS

CHROMagar Mastitis			
	GRAM POSITIVE SIDE Typical aspect	GRAM NEGATIVE SIDE Typical aspect	Suggestion if needed ID CONFIRMATION
Non-inoculated	White Opaque	Transparent Amber	
Microorganism			
<i>Streptococcus agalactiae</i> (Gram-positive)	Turquoise colonies. May be surrounded by a turquoise halo	Inhibited	- Hippurate hydrolysis positive - PYRase positive - GLCase negative
<i>Streptococcus dysgalactiae</i> (Gram-positive)	Small delicate turquoise colonies	Inhibited	-Hippurate hydrolysis negative
<i>Streptococcus uberis</i> (Gram-positive)	Middle-size metallic turquoise-blue colonies	Inhibited	- PYRase positive - GLCase negative
<i>Enterococcus faecalis</i> (Gram-positive)	Big metallic blue colonies. May be surrounded by a blue halo	Inhibited	- PYRase positive - GLCase positive
<i>Staphylococci</i> (Gram-positive)	Good sized white-yellowish to pink –salmon colonies. May be surrounded by a pink halo	Inhibited	For <i>S.aureus</i> : -AP049: pink-mauve colonies -AP059 (<i>S.aureus</i> side):pink-mauve -PD235: pink-mauve colonies
<i>Escherichia coli</i> (Gram-negative)	Inhibited	Middle-size pink-mauve colonies	-Indole Test positive -AP059 (<i>E.coli</i> side): blue-green
<i>Klebsiella pneumoniae</i> , <i>Citrobacter</i> , <i>Enterobacter</i> (Gram-negative)	Inhibited	Big mucoid metallic blue colonies	Hy-Enterotest (TT146)
<i>Proteus spp</i> (Gram-negative)	Inhibited	Middle-size clear beige to brown colonies on beige background	
<i>Pseudomonas spp</i> (Gram-negative)	Inhibited	Rather big transparent to green colonies, creamy, irregular edges	Oxidase positive (IS 002, Hy-Oxidase Test)