

HiCombi™ Chocolate-MacConkey Agar Plate

HB010

Combination of Chocolate + MacConkey Agar Plate recommended for the isolation and cultivation of fastidious organisms and differentiation of coliforms and other enteric pathogens.

Composition**

Ingredients	Gms / Litre
Chocolate Agar (M103)	-
Proteose peptone	20.000
Dextrose	0.500
Sodium chloride	5.000
Disodium phosphate	5.000
Agar	20.000
Haemoglobin solution	2%
Yeast Autolysate Supplement (FD027)	2 vial
MacConkey Agar w/o CV, NaCl w/0.5% Sodium Turocholate	-
Peptic digest of animal tissue	20.000
Lactose	10.000
Sodium taurocholate	5.000
Neutral red	0.040
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Directions

Streak the test inoculum (50-100 CFU) aseptically on the plate.

Principle And Interpretation

Biplates has unique combination of two media.

Chocolate Agar Base, with the addition of supplements, gives excellent growth of the gonococcus without overgrowth by contaminating organisms. *Neisseria gonorrhoeae* is a gram-negative bacteria and the causative agent of gonorrhoea, however it is also occasionally found in the throat. The cultivation medium for gonococci should ideally be a rich nutrients base with blood, either partially lysed or completely lysed. The diagnosis and control of gonorrhoea have been greatly facilitated by improved laboratory methods for detecting, isolating and studying *N. gonorrhoeae*.

MacConkey Agar is a differential medium for the selection and recovery of the *Enterobacteriaceae* and related enteric gram-negative bacilli. This medium is prepared in accordance with USP and contain crystal violet, NaCl and Bile salts. It is very selective and suppresses growth of a number of Gram-positive bacteria including staphylococci. Coliforms and Enterobacter give pink to red colonies on this medium and *Escherichia coli* gives pink to red colonies with bile precipitate.

Quality Control

Appearance

Sterile Chocolate Agar and MacConkey Agar in 90 mm disposable biplates.

Colour

Chocolate brown coloured medium of Chocolate Agar and Red coloured with purplish tinge of MacConkey Agar.

Quantity of medium

10 ml of each medium in biplate

pH of Chocolate Agar

7.10- 7.50

pH of MacConkey Agar

7.20- 7.60

Sterility test

Passes release criteria

Cultural Responce

Cultural characteristics observed after incubation at

**Organism Growth on Chocolate Agar
at 35 - 37°C for 40 - 48 hours with 5-10% CO₂ & 70% Humidity**

<i>Haemophilus influenzae</i> ATCC 19418	luxuriant
<i>Neisseria meningitidis</i> ATCC 13090	luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6303	luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	luxuriant

Organism at 35 - 37°C for 18 - 24 hours.	Growth on MacConkey Agar	Colour of colony on MacConkey Agar
<i>Salmonella Paratyphi B</i> ATCC 8759	luxuriant	colourless
<i>Salmonella Enteritidis</i> ATCC 13076	luxuriant	colourless
<i>Salmonella Typhi</i> ATCC 6539	luxuriant	colourless
<i>Staphylococcus aureus</i> ATCC 25923	fair-good	pale pink -red
<i>Salmonella Paratyphi A</i> ATCC 9150	luxuriant	colourless
<i>Shigella flexneri</i> ATCC 12022	fair to good	colourless
<i>Escherichia coli</i> ATCC 25922	luxuriant	pink to red with bile precipitate
<i>Enterobacter aerogenes</i> ATCC 13048	luxuriant	pale pink to red
<i>Enterococcus faecalis</i> ATCC 29212	fair to good	pale pink to red
<i>Proteus vulgaris</i> ATCC 13315	luxuriant	colourless

Storage and Shelf Life

Store below 20-30°C. Use before expiry date on the label.

Reference

Refer Technical Data of M103 Chocolate agar base & M081 MacConkey agar w/0.15% Bile Salts, CV and NaCl.

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