

## HiCombi™ Cetrimide - MacConkey Agar

HB005

Combination of Cetrimide Agar + MacConkey Agar w/ 0.15% Bile Salts, CV and NaCl recommended for selective isolation and enumeration of *Pseudomonas* species and differentiation of other enteric pathogens.

### Composition\*\*

Ingredients	Gms / Litre
Cetrimide Agar	-
Pancreatic digest of gelatin	17.000
Magnesium chloride	1.400
Potassium sulphate	10.000
Cetrimide	0.300
Agar	15.000
MacConkey Agar	-
Gelatin peptone	17.000
Casein enzymic hydrolysate	1.500
Peptic digest of animal tissue	1.500
Peptone	1.500
Lactose	10.000
Bile salts	1.500
Sodium chloride	5.000
Neutral red	0.030
Crystal violet	0.001
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.

Cetrimide Agar is used as a selective medium for the isolation of *Pseudomonas aeruginosa* from pharmaceutical products. This medium is used for determining the ability of an organism to produce fluorescein and pyocyanin. Cetrimide (N-acetyl-N,N,N-trimethylammonium bromide) is incorporated in the medium to inhibit bacteria other than *Pseudomonas aeruginosa*. Colonies of *Pseudomonas aeruginosa* may appear pigmented greenish (under UV light also).

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 Cetrimide Agar and MacConkey Agar in 90 mm disposable biplates.

#### Colour

Light amber coloured medium of Cetrimide Agar and Red coloured medium with purplish tinge of MacConkey Agar

#### Quantity of medium

10 ml of each medium in biplate

#### pH of Cetrimide Agar

7.00- 7.40

**pH of MacConkey Agar**

6.90- 7.30

**Sterility test**

Passes release criteria

**Cultural response**

Cultural characteristics observed after incubation at 35-37°C for 18-48 hours.

Organism	Growth on MacConkey Agar	Colour of colony on MacConkey Agar	Growth on Cetrimide Agar	Colour of colony on Cetrimide Agar
<i>Enterococcus faecalis</i> ATCC 29212	None-poor	Colourless-pink	-	-
<i>Shigella flexneri</i> ATCC 12022	Fair-good	Colourless	-	-
<i>Staphylococcus aureus</i> ATCC 25923	Inhibited	-	Inhibited	-
<i>S. serotype enteritidis</i> ATCC 13076	Luxuriant	Colourless	-	-
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Pink-red w/ bile precipitate	Inhibited	-
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Colourless	-	-
<i>S. serotype paratyphi A</i> ATCC 9150	Luxuriant	Colourless	-	-
<i>S. serotype paratyphi B</i> ATCC 8759	Luxuriant	Colourless	-	-
<i>S. serotype typhi</i> ATCC 6539	Luxuriant	Colourless	-	-
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Pink-red	-	-
<i>Pseudomonas aeruginosa</i> ATCC 27853	-	-	Luxuriant	Yellow green to blue
<i>Stenotrophomonas maltophilia</i> ATCC 13637	-	-	Inhibited	-

**Storage and Shelf Life**

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

**Reference**

Refer Technical Data of M024 Cetrimide agar &amp; M081 MacConkey agar w/ 0.15% Bile Salts, CV and NaCl.

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