

HiCombi™ Blood -Chocolate Agar

HB008

Combination of Blood + Chocolate Agar recommended for isolation of *Neisseria* and other fastidious microorganisms.

Composition**

Ingredients	Gms / Litre
Blood Agar	-
Casein Enzymic Hydrolysate	14.000
Peptic digest of animal tissue	4.500
Yeast Extract	4.500
Sodium Chloride	5.000
Agar	15.000
Blood	5%
Chocolate Agar	-
Proteose peptone	20.000
Dextrose	0.500
Disodium phosphate	5.000
Agar	15.000
Haemoglobin	2%

**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.

Haemolysins are exotoxins produced by bacteria that lyse red blood cells. The haemolytic reaction can be visualized on blood agar plates. On blood agar plates colonies of haemolytic bacteria may be surrounded by clear, colourless zone where the red blood cells have been lysed and the haemoglobin destroyed to a colourless compound. This is beta haemolysis. Other types of bacteria can reduce haemoglobin to methaemoglobin which produces a greenish zone around the colonies and is called alpha haemolysis. Gamma haemolysis is no haemolysis where no change in the medium is observed.

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*.

Quality Control

Appearance

Sterile Blood and Chocolate Agar in 90 mm disposable biplates.

Colour

Red coloured medium of Blood agar and Chocolate Brown coloured medium of Chocolate Agar

Quantity of medium

10 ml of each medium in biplate

pH of Blood Agar

7.10- 7.50

pH of Chocolate Agar

7.10- 7.50

Sterility test

Passes release criteria

Cultural response

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

Organism	Growth on Blood Agar	Haemolysis	Growth on Chocolate Agar
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant	Beta	Luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6303	Luxuriant	Alpha	Luxuriant
<i>Neisseria gonorrhoeae</i> ATCC 19424	-	-	luxuriant

Storage and Shelf Life

Store between 2-8°C. Use before expiry date on the label.

Reference

Refer Technical Data of M1301 Sheep Blood agar & M103 Chocolate agar.

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