

%5 SHEEP BLOOD AGAR / EMB AGAR

INTENDED USE:

5% Sheep Blood Agar is a highly nutritious general purpose medium for the isolation and cultivation of nonfastidious and fastidious microorganisms from clinical specimens.

EMB Agar (Eosin Methylene Blue Agar) is recommended for the isolation and differentiation of gram negative enteric bacteria from clinical and nonclinical specimens.

PRINCIPLE AND INTERPRETATION:

%5 Sheep Blood Agar is general-purpose medium for the isolation and cultivation of nonfastidious and fastidious microorganisms from a variety of clinical and nonclinical materials.

EMB Agar (Levine) was developed by Levine and is used for the differentiation of Escherichia coli and Enterobacter aerogenes. It is also used for the rapid identification of Candida albicans. Eosin-Y and methylene blue make the medium slightly selective and inhibit some gram -positive bacteria.

COMPOSITION:

%5 SHEEP BLOOD AGAR	
Ingredients	Gr/Liter
Special peptone	23 gr
Starch	1 gr
Sodium chloride	5 gr
Agar	10 gr
Defibrinated Sheep Blood	50 mL

EMB AGAR	
Ingredients	Gr/Liter
Peptone	10 gr
Lactose	10 gr
Dipotassium hydrogen phosphate	2 gr
Eosin Y	0,4 gr
Methylene blue	0,065 gr
Agar	15 gr

***Formula adjusted, standardized to suit performance parameters

pH 7,4 ± 0,2

***Formula adjusted, standardized to suit performance parameters

pH 6,8 ± 0,2

PRECAUTIONS:

For professional use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

TEST PROCEDURE:

Incubate plates at 35 ± 2°C in an aerobic atmosphere supplemented with carbon dioxide. Read plates after 18 to 24 and after 42 to 48 hours of incubation.

QUALITY CONTROL:**1.Sterility Control:**

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

2.Physical/Chemical Control

pH (%5 Sheep Blood Agar): 7,4 ± 0,2 / **pH** (EMB Agar) : 6,8 ± 0,2

Apperance(%5 Sheep Blood Agar): Prepared medium with 5% sheep blood is red and opaque.

Apperance(EMB Agar): Reddish purple

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3.Microbiological Control: Incubate plates at $35 \pm 2^{\circ}\text{C}$ in an aerobic atmosphere supplemented with carbon dioxide. Read plates after 24-48 hours of incubation.

Microorganism	Inoculum (CFU)	Results	
		%5 Sheep Blood Agar	EMB Agar
Escherichia coli ATCC 25922	10-100	Good(γ hemolysis)	Green metallic shine
Staphylococcus aureus ATCC 25923	10-100	Good(β hemolysis)	Partial Inhibition
Streptococcus pneumoniae ATCC 6305	10-100	Good(α hemolysis)	—
Streptococcus pyogenes ATCC 19615	10-100	Good(β hemolysis)	—
Salmonella typhimurium ATCC 14028	10-100	—	Good
Enterococcus faecalis ATCC 29212	10-100	—	Partial Inhibition

STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at $2 - 12^{\circ}\text{C}$. Use before expiry date on the label.Do not use beyond stated expiry date.

DISPOSAL:

Incubated prepared medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected plate should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

PACKAGING:

Katalog Number: 03003

Packaging: Single wrap

Content: 10 plates/each package

REFERENCES:

1. Ellner, Stoessel, Drakeford and Vasi. 1966. Am. J. Clin. Pathol. 45:502.
2. Fildes. 1920. Br. J. Exp. Pathol. 1:129.
3. Fildes. 1921. Br. J. Exp. Pathol. 2:16.
4. Chapin and Doern. 1983. J. Clin. Microbiol. 17:163.
5. Levine, 1918, J. Infect. Dis., 23:43.
6. Howard B.J., 1994, Clinical and Pathogenic Microbiology, 2nd ed., Mosby Year Book, Inc.



Aseptic Sterile



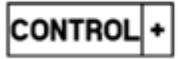
Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature Limitation



Do not reuse



Contains sufficient for <n> tests



Look at user manual



Manufacturer