OXALIS Diagnostics Pvt. Ltd.

Technical Data

Sheep Blood Agar Plates (6%) (90mm)

Used for cultivation of fastidious organisms and studying haemolytic reactions. It provides improved and enhanced haemolysis.

Product Presentation:

Cat No.	Product description	Pack Size
31010110060	Sheep Blood Agar Plates (6%)	60 Plates

Principle

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. Blood gar Base supplemented with sheep blood is used to study haemolytic reactions (patterns) of organisms. But this gave mixed haemolytic reactions due to the physiological differences between sheep blood and horse blood. Sheep Blood Agar Base with added sheep blood was developed to allow maximum recovery of organisms without interfering with their haemolytic reactions. Sheep Blood Agar Base was formulated to be compatible with sheep blood and give improved haemolytic reactions of organisms. Tryptone, peptone and yeast extract provide nitrogen, carbon, amino acids and vitamins. Sodium chloride maintains the osmotic balance. Sheep Blood Agar Base showed considerable improvement and the expected beta haemolytic reactions with S.pyogenes in comparison to other blood agar bases supplemented with blood.

Composition

Ingredients	**Grams / Litre**
Tryptone	14.0
Peptone	4.5
Yeast extract	4.5
Sodium chloride	5.0
Agar	13.5
After sterilization.	
Defibrinated sterile blood at (45^{o}C-50^{o})	60 mL

*Formula adjusted, standardized to suit performance parameters

Additional Material Required

Bacteriology Incubator.

Directions

- ✓ Open the sterile pack and remove Sheep Blood Agar Plate(6%) aseptically.
- ✓ Inoculate/streak the plate and Incubate in inverted position as per standard procedure.

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Storage and Stability

- ✓ Store between 2°C-8°C to avoid water condensation. Condensation can be prevented by avoiding quick temperature shifts and mechanical stress.
- ✓ Under optimal conditions, the medium has a shelf life of 3 months. Use before expiry mentioned on the label.

Quality Control

Appearance: Gel with smooth, even surface without any cracks, bubbles and drying or shrinking of media.
Colour and Clarity of Medium: Cherry red coloured opaque medium slightly opalescent gel forms in petridishes.
Quantity of Medium: 25 ± 2 g media in 90 mm petriplate.
pH at 25°C±2°C: 7.3±0.2

Growth Promotion Test :

Growth promotion was carried out in accordance with the harmonized method of USP/EP/JP and growth was observed after an incubation at 30-35°C for 18-48 hours.

Growth Promoting Properties :

Growth of the microorganisms is comparable to the previously tested and approved lot. The test results observed are within the specified temperature and shortest period of time, inoculating ≤100 cfu of appropriate microorganism.

Cultural Response:

Organism	Type Culture	Growth	Haemolysis	Incubation Temperature	Incubation Period
Streptococcus pneumoniae	ATCC 6303	Good	alpha	30°C -35°C	18 Hours
Streptococcus pyogenes	ATCC 19615	Good	beta	30°C -35°C	18 Hours

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.
User must be ensure safe disposal of used or unusable preperation of the products.

Reference

- ✓ Pelczar M. J. Jr., Reid R. D., Chan E. C. S., 1977, Microbiology, 4th Ed., Tata McGraw-Hill Publishing Company Ltd, New Delhi.
- ✓ Koneman E. W., Allen S. D., Janda W. M., Schreckenberger P. C., Winn W. C. Jr., 1992, Colour Atlas and Textbook of Diagnostic Microbiology, 4th Ed., J. B. Lippinccott Company.

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