OXALIS Diagnostics Pvt. Ltd.

Technical Data

Mueller Hinton Agar Plate (90mm)
Mueller Hinton Agar is used for antimicrobial disc diffusion susceptibility testing of common, rapidly growing bacteria.

Product Presentation:

Cat No.	Product description	Pack Size
31010040060	Mueller Hinton Agar Plates	60 Plates

Principle
Casein acid hydrolysate and beef extract supply amino acids and other nitrogenous substances, minerals, vitamins, carbon and other nutrients to support the growth of microorganisms. Starch acts as a protective colloid against toxic substances that may be present in the medium. Hydrolysis of starch during autoclaving provides a small amount of dextrose, which is a source of energy.

Composition

Ingredients	Grams / Litre
Casein Acid Hydrolysate	17.50
Beef Extract Powder	2.00
Starch	1.50
Agar	17.00

*Formula adjusted, standardized to suit performance parameters

Additional Material Required
Bacteriology Incubator.

Directions
- ✓ Open the sterile pack and remove Mueller Hinton Agar Plate aseptically.
- ✓ Inoculate/streak the plate and Incubate in inverted position as per standard procedure.

Storage and Stability
- ✓ Store between 15°C-25°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 6 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: Light amber coloured clear to slight opalescent gel forms in Petriplates.
Quantity of Medium: 25 ± 2 g media in 90 mm petriplate
pH at 25°C±2°C: 7.3±0.2

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Cultural Response:

Cultural characteristics observed after an incubation of 18-24 hours at 30-35°C.

Organism	Type Culture	Growth	Incubation Temperature	Incubation Period
Staphylococcus aureus	ATCC 25923	Good	30°C -35°C	18 Hours
Escherichia coli	ATCC 25922	Good	30°C -35°C	18 Hours
Pseudomonas aeruginosa	ATCC 27853	Good	30°C -35°C	18 Hours

Antibiotic Sensitivity Test :

Ciprofloxacin 5mcg discs were tested for standard ATCC strains and zone of inhibition were measured after an incubation at 30-35°C for 18 hours.

Organism	Type Culture	Standard Zone of incubation	Observed Zone of incubation
Staphylococcus aureus	ATCC 25923	22 mm-30 mm	28 mm
Pseudomonas aeruginosa	ATCC 27853	30 mm-40 mm	37 mm

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

1. Mueller and Hinton, 1941, Proc. Soc. Exp. Bio. And Med; 48:330.
2. Bauer et al., 1966, Am. J. Clin. Patho., 45:493.
3. US Food and Drug Adm; 1998, Bacteriological Analytical Manual, 8th Ed; Rev. A, AOAC, International, Gaithersburg, Md.

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