OXALIS Diagnostics Pvt. Ltd.

Technical Data

Mueller Hinton Broth. 100 g / 500 g

Used for determining the antimicrobial susceptibility of bacteria by tube dilution method.

Product Presentation:

Cat No.	Product description	Pack Size
11130040100	Mueller Hinton Broth	100 Gram
11130040500	Mueller Hinton broth	500 Gram

Principle and interpretation

The Mueller Hinton formulation was originally developed as a simple, transparent agar medium for the cultivation of pathogenic *Neisseria* species. Other media were subsequently developed that replaced the use of Mueller Hinton Agar for the cultivation of pathogenic *Neisseria* species, but it became widely used in the determination of sulfonamide resistance of Gonococci and other organisms. Mueller Hinton Broth is recommended for dilution antimicrobial susceptibility testing of all species of most commonly encountered aerobic and facultatively anaerobic bacteria.

Beef extract and casein acid hydrolysate provide nitrogenous compounds, carbon, sulphur and other essential nutrients. Starch acts as a protective colloid against toxic substances present in the medium. Starch hydrolysis yields dextrose, which serves as a source of energy.

Composition

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

Final pH (at 25°C) 7.3±0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Clinical samples

Specimen Collection and Handling

Ensure that all samples are properly labeled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

- ✓ Suspend 21.00 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely.
- ✓ Dispense as required.
- ✓ Sterilize by autoclaving 121°C for 15 minutes or as per validated cycle.

Storage and Stability

- ✓ Store Dehydrated culture media in cool, dry place at 10°C-30°C away from direct light.
- ✓ Store prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

FACTORY & OFFICE
Plot No. D 76 , Five Star MIDC Area, Kagal.
Dist. Kolhapur -416216 (M.S.)India.
Email : oxalispvtltd@outlook.com

Telefax : 0231-2305072
Phone : 0231-2305062
Mobile : +91 8805867810

OXALIS Diagnostics Pvt. Ltd.

Technical Data

Quality Control

Dehydrated Appearance: Cream to yellow coloured, homogenous, free flowing powder.
Prepared Appearance: Light yellow to amber coloured, clear solution without any precipitate.
Growth Promotion Test: Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP and growth is observed after an incubation at 30°C-35°C for 18 to 24 hours.
Growth Promoting Properties: The test results observed are within the specified temperature and shortest period of time specified in the test, inoculating ≤ 100 cfu of appropriate microorganism at 30°C-35°C for 18 hours.

Cultural Response :

Organism	Type Culture	Growth	Incubation Temperature	Incubation Period
Staphylococcus aureus	ATCC 25923	Good	30°C -35°C	18 Hours
Staphylococcus aureus	ATCC 6538	Good	30°C -35°C	18 Hours
Escherichia coli	ATCC 25922	Good	30°C -35°C	18 Hours
Escherichia coli	ATCC 8739	Good	30°C -35°C	18 Hours
Pseudomonas aeruginosa	ATCC 27853	Good	30°C -35°C	18 Hours
Pseudomonas aeruginosa	ATCC 9027	Good	30°C -35°C	18 Hours
Bacillus subtilis	ATCC 6633	Good	30°C -35°C	18 Hours

Interpretation of Results

- ✓ Examination of tubes for growth after completion of incubation period.
- ✓ Growth from tubes inoculated with pure cultures can be used for biochemical and serological testing.

Warranty

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

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. US Food and Drug Adm; 1998, Bacteriological Analytical Manual, 8th Ed; Rev. A, AOAC, International, Gaithersburg, Md.

FACTORY & OFFICE
Plot No. D 76 , Five Star MIDC Area, Kagal.
Dist. Kolhapur -416216 (M.S.)India.
Email : oxalispvtltd@outlook.com

Telefax : 0231-2305072
Phone : 0231-2305062
Mobile : +91 8805867810