OXALIS Diagnostics Pvt. Ltd.

Technical Data

Mannitol Salt Agar. 100 g / 500 g

Used for the selective isolation of pathogenic Staphylococci.

Product Presentation:

Cat No.	Product description	Pack Size
11130090100	Mannitol Salt Agar	100 Gram
11130090500	Mannitol Salt Agar	500 Gram

Principle

Proteose peptone and beef extract supplies essential growth factors such as nitrogen, carbon, sulphur and trace nutrients. The 7.5% salt concentration results in partial or complete inhibition of bacteria other than Staphylococci. Mannitol fermentation, results in change in the phenol red indicator, (from red to yellow) which helps in the differentiation of Staphylococcal species. Coagulase negative species of Staphylococci and micrococci do not ferment mannitol and grow as small red colonies surrounded by red or purple zones. Yellow coloured colonies should be tested for production of coagulase. Addition of 5% v/v Egg Yolk Emulsion enables the detection of lipase activity of Staphylococci along with mannitol fermentation. The salt clears the egg yolk emulsion and lipase production is detected as yellow opaque zone around the colonies. Coagulase positive Staphylococci produce colonies surrounded by bright yellow zones while non-pathogenic Staphylococci produce colonies with reddish purple zones.

Composition

Ingredients	Grams / Litre
Beef Extract	01.00
Proteose Peptone	10.00
Sodium Chloride	75.00
D-Mannitol	10.00
Phenol Red	0.025
Agar	15.00

Final pH (at 25°C) 7.4±0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Clinical samples - Pus, Urine; Food and Dairy samples; Water 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 111.02 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely. Avoid Overheating.
- ✓ Sterilize by autoclaving 121°C for 15 minutes or as per validated cycle.

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

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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.

Quality Control

Dehydrated Appearance: Light pink coloured homogeneous, free flowing powder
Prepared Appearance: Red to rose pink coloured, slightly opalescent gel forms in petriplates.

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

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Indicative Properties: The test results observed are within the specified temperature and time, inoculating ≤100 cfu of appropriate microorganism.

Inhibitory Properties: No growth of the test microorganism occurs for the specified temperature and not less than the longest period of the time specified, inoculating >100 cfu of the appropriate microorganism at 30°C-35°C for 72 hours

Cultural Response :

Organism	Type Culture	Growth	Colour of Colony	Incubation Temperature	Incubation Period
Staphylococcus aureus	ATCC 25923	Good	Yellow colonies surrounded by yellow zone	30°C -35°C	18 Hours

Inhibitory :

Organism	Type Culture	Growth	Incubation Temperature	Incubation Period
Escherichia coli	ATCC 25922	Inhibited	30°C -35°C	48 Hours

Interpretation of Results

- ✓ Examination of plates for growth after completion of incubation period.

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. Chapman, 1945. J. Bact; 50:201.
2. US Pharmacopeial Convention, Inc. 2001. The United States Pharmacopoeia 25/NF 20-2002. The US Pharmacopeial Convention, Inc; Rockville, Md.
3. IP, 1996, Ministry of Health and Family Welfare, Govt. of India, Vol.

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