OXALIS Diagnostics Pvt. Ltd.

Technical Data

Nutrient Agar. 100 g / 500 g

Used for the cultivation of bacteria and for the enumeration of organisms in water, sewage, feces and other materials.

Product Presentation:

Cat No.	Product description	Pack Size
11140010100	Nutrient Agar	100 Gram
11140010500	Nutrient Agar	500 Gram

Principle

Nutrient Agar is a basic culture medium used to subculture organisms for maintenance purpose or to check the purity of subcultures from isolated plates prior to biochemical or serological testing. It is used for the cultivation and enumeration of organisms in water, sewage, faeces and other materials, which are not particularly fastidious.Nutrient Agar is ideal for demonstration and teaching purposes where a more prolonged survival of cultures at ambient temperature is often required without risk of overgrowth that can occur with more nutritious substrate. Peptone, yeast extract and beef extract provide water soluble substances including carbohydrates, vitamins, organic nitrogen compounds and salts. Peptone is the principle source of organic nitrogen, particularly amino acids and long chained peptides. Sodium chloride maintains the osmotic equilibrium of the medium.

Composition

Ingredients	Grams / Litre
Peptone	5.00
Sodium Chloride	5.00
Beef Extract	1.50
Yeast Extract	1.50
Agar	15.00

Final pH (at 25°C) 7.4±0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Water and Waste Water samples, Clinical samples - Faeces, Food and Dairy 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.

FACTORY & OFFICE
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Directions

- ✓ Suspend 28.00 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely.
- ✓ 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.

Quality Control

Dehydrated Appearance: Beige coloured homogeneous, free flowing powder
Prepared Appearance: Pale yellow coloured, slightly opalescent gel forms in petridishes

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

Cultural Response :

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
Enterococcus faecalis	ATCC 29212	Good	30°C -35°C	18 Hours
Pseudomonas aeruginosa	ATCC 27853	Good	30°C -35°C	18 Hours
Bacillus subtilis	ATCC 6633	Good	30°C -35°C	18 Hours

Interpretation of Results

- ✓ Examination of plates 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.
2. American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978,

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