OXALIS Diagnostics Pvt. Ltd.

Technical Data

Nutrient Agar. 100 mL

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
24010020100	Nutrient Agar	100 mL

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

Directions

- ✓ Loosen the cap.
- ✓ Melt the medium completely in water bath at 100 °C.
- ✓ Do not remove the cap of bottle while melting.
- ✓ Cool to 45°C-50°C mix well and pour in to the petriplates.

Quality Control

Appearance: Pale yellow coloured, slightly opalescent gel.

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. .

FACTORY & OFFICE
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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

Storage and Stability

- ✓ Store ready to use Nutrient Agar in a cool, dry place at 15°C-25°C away from direct light.
- ✓ Stability of the kit is as per expiry date mentioned on the label.

Remarks

- ✓ Do not use media bottles that exhibit any damage, cracks, microbial contamination, discoloration, drying or other sign of deterioration.
- ✓ Ensure that the temperature of water bath is at 100°C so that the medium melts completely. Cooler water baths give rise to lumpy, uneven medium.
- ✓ Before pouring into sterile petriplates, gently swirl the bottle to check whether the entire contents are properly mixed and melted.
- ✓ Good laboratory practices and hazard precautions must be observed at all times.
  After use media containers, prepared plates, sample, sample containers and other contaminated materials must be sterilized or incinerated before discarding.

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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