OXALIS Diagnostics Pvt. Ltd.

Technical Data

Plate Count Agar. 100 g / 500 g

Used for obtaining microbial plate counts from milk and dairy products, food, water and other material of sanitary importance.

Product Presentation:

Cat No.	Product description	Pack Size
11160020100	Plate Count Agar	100 Gram
11160020500	Plate Count Agar	500 Gram

Principle

Plate count agar is simple media used for enumeration of bacteria from potable water, waste water, air and food and dairy products. It is composed of tryptone, yeast extract, glucose and agar. Tryptone and yeast extract provide nitrogen, carbon, vitamins and other essential growth factors. Glucose is carbon source. Agar is solidifying agent.

Composition

Ingredients	Grams / Litre
Tryptone	5.00
Glucose	1.00
Yeast Extract	3.00
Agar	15.00

Final pH (at 25°C) 7.0±0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Potable, waste water samples, air samples, food and dairy samples etc.

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 24.00 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

FACTORY & OFFICE
Plot No. D 76 , Five Star MIDC Area, Kagal.
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Dehydrated Appearance: Beige coloured homogeneous, free flowing powder
Prepared Appearance: Light amber colored slightly opalescent gel forms in petridishes

Growth Promotion Test: Growth promotion is carried out after an incubation at 30°C-35°C for 18 to 48 hours.

Cultural Response :

Organism	Type Culture	Growth	Colour of the colony	Incubation Temperature	Incubation Period
Staphylococcus aureus	ATCC 25923	Good	Yellowish Cream	30°C -35°C	18 Hours
Escherichia coli	ATCC 8739	Good	Cream	30°C -35°C	18 Hours
Salmonella typhimurium	ATCC 14028	Good	Cream	30°C -35°C	18 Hours
Bacillus subtilis	ATCC 6633	Good	Cream	30°C -35°C	18 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. US Food and Drug Adm; 1998, Bacteriological Analytical Manual, 8th Ed; Rev. A, AOAC, International, Gaithersburg, Md.
2.Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.

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