



**Nutrient Agar Plate (90mm)**

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
31010030060	Nutrient Agar Plates	60 Plates

**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

\*Formula adjusted, standardized to suit performance parameters

**Additional Material Required**

Bacteriology Incubator.

**Directions**

- ✓ Open the sterile pack and remove Nutrient Agar Plate aseptically.
- ✓ Inoculate/streak the plate and Incubate in inverted position as per standard procedure.

**Storage and Stability**

- ✓ Store between 15°C-25°C to avoid water condensation. Condensation can be prevented by avoiding quick temperature shifts and mechanical stress.
- ✓ Under optimal conditions, the medium has a shelf life of 6 months. Use before expiry mentioned on the label.

**FACTORY & OFFICE**

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**Quality Control**

**Appearance:** Gel with smooth, even surface without any cracks, bubbles and drying or shrinking of media.

**Colour and Clarity of Medium:** Pale yellow coloured, slightly opalescent gel forms in petridishes.

**Quantity of Medium:** 25 ± 2 g media in 90 mm petriplate

**pH at 25°C±2°C:** 7.4±0.2

**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
<i>Staphylococcus aureus</i>	ATCC 25923	Good	30°C -35°C	18 Hours
<i>Escherichia coli</i>	ATCC 25922	Good	30°C -35°C	18 Hours
<i>Enterococcus faecalis</i>	ATCC 29212	Good	30°C -35°C	18 Hours
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Good	30°C -35°C	18 Hours
<i>Bacillus subtilis</i>	ATCC 6633	Good	30°C -35°C	18 Hours

**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 ensure safe disposal of used or unusable preparation of the products.

**Reference**

- ✓ US Food and Drug Adm; 1998, Bacteriological Analytical Manual, 8th Ed; Rev. A, AOAC, International, Gaithersburg, Md.
- ✓ American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978,

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