

ANTA001

Nutrient Agar

A General purpose medium for cultivation and maintenance of a wide variety of microorganisms.

Composition	Ingredients Gms / Litre
Pancreatic digest of animal tissue	10.000
Sodium chloride	5.000
Beef Extract	10.000
Agar	12.000

Appearance:

Light Amber coloured Sterile Nutrient Agar in 90 mm Petri Plates

pH (at 25°C):

7.2 ± 0.2

Principle:

NUTRIENT AGAR is used for less fastidious microorganisms as well as for permanent cultures (general purposes medium). The medium contains Beef extract and Pancreatic digest of animal tissue as sources of nitrogen, vitamins, amino acids and carbon for potential microorganism's growth. Sodium chloride ensures osmotic balance. Thus, when adding blood, as supplement the blood cells will not rupture. Addition of 10% different biological fluids such as blood, serum and egg yolk makes it suitable for the cultivation of related fastidious organism. For eg., *Pseudomonas aeruginosa* produces a blue-green pigment, pyocyanin, which diffuses into the medium giving the plate a charactersitic colour. For growing specific bacteria culture, spread the bacteria on the plate using sterile swab or inoculating loop. The bacteria will grow and become visible in 24 – 48 hrs. It is generally used in the laboratory to prepare stock cultures of the bacteria.

Quantity of Medium:

30ml of medium in 90mm plates

Dose of Gamma irradiation:

12 to 17 KGy

Cultural Response:

Cultural characteristics observed after incubation at 35-37°C for 18-24 hours and recovery should be greater than 70%.

Sterility Test:

Passes release criteria.

Shelf Life and Storage Conditions:

Use before expiry date on the label and store below 25°C.

Reference Pharmacopoeia:

IP/USP/EP