



Nutrient Agar | AS-1307

For the cultivation and maintenance of a wide variety of microorganisms.

Nutrient agar is a multipurpose culture medium that is reasonably easy to prepare and is meant for the cultivation and maintenance of non-fastidious microorganisms. It is frequently utilized in many different fields, including evaluating dairy and water quality. This medium gives a variety of microorganisms the vital nutrients they need. An essential component that provides amino acids, long-chain peptides, vitamins, and organic nitrogen compounds for microbial growth includes peptone, meat extract, and yeast extract. The medium gets solidified by bacteriological agar.

Composition (gr/L)

Peptone	5
Beef Extract	1
Yeast Extract	2
Sodium Chloride	5
Agar	15
Final pH at 25°C	7.4 ± 0.2

Preparation

Dissolve 28 grams of the medium into 1 liter of deionized water. Stir well. Autoclave for 15 minutes at 121 °C.

Quality Control

Dehydrated Appearance: Tan, free-flowing, homogeneous.

Prepared Appearance: Light amber, very slightly to slightly opalescent.

Reaction of 2.8% Solution at 25°C: pH 7.4 ± 0.2

Microbial Test Results

For 18 to 48 hours, incubate at 35 ± 2°C.

Organism (ATCC)	Recovery
<i>Escherichia coli</i> (25922)	Good
<i>Enterococcus faecalis</i> (19433)	Good
<i>Pseudomonas aeruginosa</i> (27853)	Good

Storage

Keep the container at 15-30 °C and prepared medium at 2-8 °C.