



Nutrient Broth | AS-1309

General culture media for cultivating less fastidious microorganisms.

Nutrient broth is a common non-selective culture medium in microbiology. It supports the growth of a wide range of non-fastidious bacteria. Peptone and yeast extract supplies vital amino acids, peptides, vitamins, and minerals required for the growth of microorganisms. Sodium chloride preserves the osmotic equilibrium of the medium.

Nutrient broth is used in many different microbiological processes, including enrichment, culture maintenance, and purity evaluation before further biochemical or immunological testing.

Composition (gr/L)

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

Preparation

Dissolve 13 g of the powder into 1 liter distilled water. Autoclave at 121 °C for 15 minutes.

Quality Control

Dehydrated Appearance: Medium tan, free-flowing, homogeneous.

Prepared Appearance: Light to medium amber, clear.

Reaction of 1.3% Solution at 25°C: pH 7.4 ± 0.2

Microbial Test Results

incubate at 35 ± 2 °C for 18 to 24 hours.

Organism (ATCC)	Recovery
<i>Escherichia coli</i> (25922)	Good
<i>Enterococcus faecalis</i> (19433)	Good
<i>Staphylococcus aureus</i> (25923)	Good

Storage

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