

Nutrient Agar (NA)

Cat No: **111020**

Intended Use

Nutrient Agar is a general-purpose culture medium widely used for the cultivation, isolation, and maintenance of a broad range of non-fastidious microorganisms. It supports the growth of bacteria and fungi from clinical, environmental, food, and water samples. Nutrient Agar is commonly used in routine laboratory work for colony morphology observation, subculturing, and purity checks, making it a staple medium in microbiological laboratories for quality control and research applications.

Principle

Peptone and beef extract supply essential nutrients, including nitrogen, vitamins, minerals, and amino acids, that support microbial growth. Bacteriological agar serves as the solidifying agent in the medium.

Storage

Recommended storage conditions: 2 to 25 °C. Store in cool dry place
 Recommended shipping conditions: 2 to 25 °C.

Production Standard

The formulation is prepared according to the recommendations of the current European, United States, and China Pharmacopoeia.

Precautions

1. The product may secrete water when exposed to temperature changes between low and room temperature, which is normal. Allow it to reach room temperature before use and, if possible, pre-dry it in a sterile drying oven.
2. Handle the plates with sterile gloves to prevent contamination during use.
3. Store the plates in a cool, dry place away from direct sunlight to maintain their integrity.
4. Avoid opening the plates until they are ready to be used in the sampling area to prevent airborne contamination.
5. Ensure the plates are used within their expiration date to guarantee accurate results.
6. Dispose of used plates according to biohazard waste protocols to prevent contamination and ensure safety.

Quality Control

The following were incubated at 30-35°C for 18-24 hours. The results are as follows:

Test Strains	Expected Results
<i>Escherichia coli</i> ATCC 8739	Good growth
<i>Escherichia coli</i> ATCC 25922	Good growth
<i>Salmonella typhimurium</i> ATCC 14028	Good growth

Product Content

Product Content	Cat No.	Size
Nutrient Agar (NA)	111020	10 plates/bag; 200 plates/case

Composition

Peptone	10.0 g
Beef extract	3.0 g
Yeast extract	5.0 g
Sodium chloride	5.0 g
Bacteriological agar	15.0 g
Final pH (at 25°C)	7.4 ± 0.2

Shelf Life

Shelf life: 6 months from date of manufacture

Packaging

90mm x 10 plates per bag; 200 plates/case

Each plate filled with 25mL ± 2mL

Disposal

Please adhere to the respective regulations for the disposal of used culture medium (e.g., autoclave for 30 minutes at 121 °C)

References

1. ISO Standard 6579-1 (2017) Microbiology of food chain - Horizontal method for the detection, enumeration and serotyping of *Salmonella* - Part Detection of *Salmonella* spp.
2. ISO 6785 Standard (2001). Milk and milk products.– Detection of *Salmonella* spp.
3. ISO 10273 Standard (1994) General guidance for the detection of presumptive pathogenic *Yersinia enterocolitica*.
4. ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

Specially manufactured for:

Foster Medical Pte Ltd
 76 Pioneer Road, #03-05 Mapletree Pioneer Logistics Hub, Singapore 639577

