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NUTRIENT AGAR Plates

Medical laboratories media is used as a general purpose medium for the cultivation of less fastidious microorganisms.

REF: BS.1/NAP01.010.0010

10 plates

CLINICAL SIGNIFICANCE

Nutrient Agar medium used for the cultivation of microbes supporting growth of a wide range of non-fastidious organisms. Nutrient agar is popular because it can grow a variety of types of bacteria and fungi, and contains many nutrients needed for the bacterial growth.

METHOD PRINCIPLE

Nutrient media are basic culture media used for maintaining microorganisms, cultivating fastidious organisms by enriching with serum or blood and are also used for purity checking prior to biochemical or serological testing. 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. This relatively simple formula has been retained and is still widely used in the microbiological examination of variety of materials and is also recommended by standard methods. It is one of the several non-selective media useful in routine cultivation of microorganisms. It can be used for the cultivation and enumeration of bacteria which are not particularly fastidious. Addition of different biological fluids such as horse or sheep blood, serum, egg yolk etc. makes it suitable for the cultivation of related fastidious organisms. Peptone, HM peptone B and yeast extract provide the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients necessary for the growth of bacteria. Sodium chloride maintains the osmotic equilibrium of the medium.

MEDIA COMPOSITION

Item	Concentration			
Yeast Extract	1.5 g/L			
Peptone	5 g/L			
HM Peptone	1.5 g/L			
Sodium Chloride	5 g/L			
Agar	15 g/L			
Final pH (at 25°C) after				
sterilization	7.4±0.2			

PRECAUTIONS AND WARNINGS

Media to be handled by entitled and professionally educated person. Do not ingest or inhale.

Good Laboratories practices using appropriate precautions should be followed in:

- Wearing personnel protective equipment (overall, gloves, glasses...).
- Do not pipette by mouth.
- In case of contact with eyes or skin; rinse immediately with plenty of soap and water. In case of severe injuries; seek medical advice immediately.

Respect country requirement for waste disposal.

S56: dispose of this material and its container at hazardous or special waste collection point.

S57: use appropriate container to avoid environmental contamination.

S61: avoid release in environment.

For further information, refer to the Nutrient agar material safety data sheet.

Directions

Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

Deterioration

BioScie Nutrient Agar plates are light amber coloured sterile medium

in 90 mm disposable plates with smooth surface and absence of black particles/cracks/bubbles

On receipt store between 20-30°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

Media should not be used if there are any signs of deterioration (shrinking, cracking, or discoloration), and contaminations.

SPECIMEN COLLECTION AND PRESERVATION

Clinical samples - faeces, urine ; Food and dairy samples; Water samples

EQUIPMENT REQUIRED NOT PROVIDED

- · Sterile cups
- Incubator

QUALITY CONTROL

To ensure adequate quality control, it is recommended that positive and negative control included in each run. If control values are found outside the defined range, check the system performance. If control still out of range please contact *BioScien* technical support.

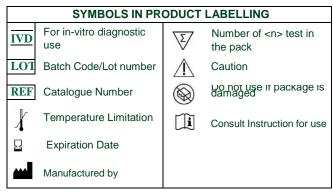
PERFORMANCE CHARACTERISTICS

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

NNutrient Agar	Expected results		
Escherichia coli ATCC 25922	Good growth		
Pseudomonas aeruginosa ATCC 27853	Good growth		
Salmonella Typhi ATCC 6539	Good growth		
Staphylococcus aureus subsp.aureus ATCC 25923	Good growth		
Streptococcus pyogenes ATCC 19615	Good growth		
Salmonella Enteritidis ATCC 13067	Good growth		
Salmonella Typhimurium ATCC 14028	Good growth		
Yersinia enterocolitica ATCC 9610	Good growth		
Yersinia enterocolitica ATCC 23715	Good growth		

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- MacFaddin J. F., 2000, Biochemical Tests for Identification of Medical Bacteria, 3rd Ed., Lippincott, Williams and Wilkins, Baltimore.
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