

Nutrient Agar Slant

Intended Use

Nutrient Agar Slant is used for cultivation of wide variety of less fastidious microorganisms which can be enriched by the addition of blood or other biological fluids.

Summary

Nutrient Agar is a basic culture medium used to subculture organisms for maintenance purpose or to check the purity of subcultures from isolated plates prior to biochemical or serological testing. It is used for the cultivation and enumeration of organisms in water, sewage, faeces and other materials, which are not particularly fastidious. Nutrient Agar is suitable for teaching purpose and maintenance of cultures, where a prolonged survival of organisms at an ambient temperature is required without risk of the overgrowth that can occur with a more nutritious medium. Nutrient Agar can be used for the cultivation of more exacting bacteria by incorporating biological fluids like horse or sheep blood, serum, ascitic fluid, egg yolk, etc. Nutrient Agar is included in the Bacteriological Analytical Manual for food testing.

Principle

Peptone, yeast extract and beef extract provide water soluble substances including carbohydrates, vitamins, organic nitrogen compounds and salts. Peptone is the principle source of organic nitrogen, particularly amino acids and long chained peptides. Sodium chloride maintains the osmotic balance and agar is the solidifying agent.

Formula*

Ingredients	g/L
Peptone	5.0
Sodium Chloride	5.0
Beef Extract	1.5
Yeast Extract	1.5
Agar	15.0
Final pH (at 25°C)	7.4 ± 0.2

*Adjusted to suit performance parameters.

Directions

1. Bring the Nutrient Agar Slant to the room temperature 22°C-30°C.
2. Use Nutrient Agar Slant as per required application.

Quality Control

Appearance: Light amber coloured, Smooth slant.

Cultural Characteristics: Cultural characteristics observed after an incubation of 18 - 24 hours at 30 °C- 35 °C.

Organism (ATCC)	Growth
<i>Escherichia coli</i> (8739)	Good
<i>Escherichia coli</i> (25922)	Good
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (6538)	Good
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (25923)	Good
<i>Pseudomonas aeruginosa</i> (9027)	Good
<i>Pseudomonas aeruginosa</i> Strain Boston 41501 (27853)	Good
<i>Bacillus spizizenii</i> (6633)	Good

Storage and Stability

1. Store the ready to use Nutrient Agar Slant at 15°C-25°C in a cool, dry place away from light.
2. Stability of the kit is as per expiry date mentioned on the label.

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

1. US Food and Drug Adm; 1998, Bacteriological Analytical Manual, 8th Ed; Rev. A, AOAC, International, Gaithersburg, Md.
2. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.	Product description	Pack Size
203140150012	Ready Prepared Slant	12 Slants

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
