



Reference : 01-140

Scharlau Microbiology - Technical data sheet

Product :
NUTRIENT AGAR

Specification

Solid culture medium for general purpose use with less fastidious organisms according to ISO standards.

Formula * in g/L

Meat extract.....	1.0
Yeast extract.....	2.0
Peptone.....	5.0
Sodium chloride.....	5.0
Agar.....	15.0

Final pH 7.4 ±0,2 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Suspend 28 g of powder in 1 L of distilled water and bring to the boil dissolving completely. Sterilize in the autoclave at 121°C for 15 minutes.

Description

Nutrient Agar is a simple medium based on meat infusions, complemented with yeast extract to reinforce its nutrient qualities as well as its growth factors. It is most suitable for general routine work and can support the growth of common organisms, even those considered somewhat fastidious with regard to nutrient requirements. The incorporation of sodium chloride allows for the addition of Blood if necessary, even though this is not an optimal medium for very fastidious organisms.

Quality control

Incubation temperature: 36°C ± 2

Incubation time: 22 ± 2h

Inoculum: Practical range 100 ± 20 CFU. Min. 50 CFU (productivity) according to ISO 11133:2014/Amd 1:2018. Spiral Plate Method.

Microorganism	Growth	Remarks
<i>Pseudomonas aeruginosa</i> ATCC® 9027	Productivity > 0.70	-
<i>Bacillus subtilis</i> ATCC® 6633	Productivity > 0.70	-
<i>Escherichia coli</i> ATCC® 8739	Productivity > 0.70	-
<i>Salmonella typhimurium</i> ATCC® 14028	Productivity > 0.70	-
<i>Staphylococcus aureus</i> ATCC® 6538	Productivity > 0.70	-

References

- ATLAS, R.M., L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press, Inc. London.
- DOWNES, F.P. & K. ITO (2001) Compendium of Methods for the Microbiological Examination of Foods. 4th ed. APHA. Washington. DC. USA.
- EUROPEAN NORME (EN) 12780:2002 Water Quality - Detection and enumeration of *Pseudomonas aeruginosa* by membrane filtration.
- ISO 16266 Standard (2006) Water Quality - Detection and enumeration of *Pseudomonas aeruginosa* - Method by membrane filtration.
- ISO 11133:2014/ Amd 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).