

Reference: PA0059

Technical Data Sheet

Product: Nutrient Agar

Specification

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

Presentation

20 Prepared Plates

90 mm

1 box with 2 packs of 10 plates/pack. Single cellophane.

Shelf Life Storage
3 months 2-14°C

Composition

Composition (g/r):	
Meat extract	1.00
Yeast extract	2.00
Peptone	5.00
Sodium chloride	5.00
Agar	15.0

Description / Technique

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.

Technique:

Collect and process sample volumes according to the specifications of directives, regulations, standards or specific protocols established depending on the objectives.

spread the plates by streaking methodology or by spiral method

Incubate the plates upside down and under aerobic conditions at 36 ± 2 ° C for 22 ± 2h.

(Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications,... This medium can be inoculated directly or after enrichment broth)

After incubation, enumerate all the colonies that have appeared onto the surface of the agar.

Each laboratory must evaluate the results according to their specifications.

Calculate total microbial count per ml of sample by multiplying the average number of colonies per plate by the inverse dilution factor if streaked a diluted sample. Report results as Colony Forming Unit (CFU's) per ml or g along with incubation time and temperature.

Quality control

Physical/Chemical control

Color: Yellowish pH: 7.4 ± 0.2 at 25°C

Microbiological control

Inoculate: Practical range 100±20 CFU; Min. 50 CFU (Productivity).

Microbiological control according to ISO 11133:2014/ Adm 1:2018.

Aerobiosis. Incubation at 36 ± 2°C, reading at 21±3 h

Microorganism	Growth
Bacillus subtilis ATCC® 6633, WDCM 00003	Good (≥70 %)
Salmonella typhimurium ATCC® 14028, WDCM 00031	Good (≥70 %)
Escherichia coli ATCC [®] 8739, WDCM 00012	Good (≥70 %)
Staphylococcus aureus ATCC® 6538, WDCM 00032	Good (≥70 %)
Ps. aeruginosa ATCC® 9027, WDCM 00026	Good (≥70 %)

Sterility Control

Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH

Check at 7 days after incubation in same conditions

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REACTIVOS PARA DIAGNOSTICO S.L.

■ MICROBIOLOGY ■

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