

Nutrient Agar ISO 16266

Medium for cultivating non-fastidious organisms and confirming *Pseudomonas aeruginosa*, according to ISO 16266.

DESCRIPTION

Nutrient Agar ISO 16266 is a medium used for the cultivation of non-fastidious organisms from clinical specimens and environmental samples.

This medium is formulated according to ISO 16266 for the detection and enumeration of *Pseudomonas aeruginosa* in water by the membrane filtration technique.

TYPICAL FORMULA

	(g/l)
Peptone	5.0
Meat Extract	1.0
Yeast Extract	2.0
Sodium Chloride	5.0
Agar	15.0
Final pH 7.4 ± 0.2 at 25°C	

METHOD PRINCIPLE

Peptone and meat extract provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Sodium chloride maintains the osmotic balance of the medium. Agar is the solidifying agent.

PREPARATION

Dehydrated medium Suspend 28 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes.

Medium in bottles Melt the content of the bottle in a water bath at 100°C (loosing the cap partially removed) until completely dissolved. Then screw the cap and check the homogeneity of the dissolved medium, if it is the case turning the bottle upside down. Cool at 45-50°C, mix well avoiding foam formation and aseptically distribute into Petri dishes.

TEST PROCEDURE

According to ISO 16266, transfer the membrane and presumptive *Pseudomonas aeruginosa* to a plate of Nutrient Agar ISO 16266. Incubate aerobically at 36 ± 2°C for 20-24 hours.

Alternatively, the medium can be inoculated by spread plating or direct streaking of the sample over the agar surface.

INTERPRETING RESULTS

Observe for colony growth. Confirm *P. aeruginosa* by performing the oxidase test (ref. 88029).

APPEARANCE

Dehydrated medium: free-flowing, homogeneous, beige.

Prepared medium: slightly opalescent, light amber.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store bottles, tubes and prepared plates at 10-25°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.

Medium in bottles: 2 years.

Medium in slant tubes: 1 year.

Ready-to-use plates: 6 months.

Distribué par :

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QUALITY CONTROL

The medium is inoculated with the microbial strains indicated in the QC table.

Inoculum for productivity: 50-100 CFU

Incubation conditions: aerobically at $36 \pm 1^\circ\text{C}$ for 20-24 hours.

QC Table.

Microorganism	Growth
<i>Pseudomonas aeruginosa</i> ATCC® 27853	Good
<i>Escherichia coli</i> ATCC® 25922	Good

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.








BIBLIOGRAPHY

- ISO 16266:2008. Water Quality – Detection and enumeration of *Pseudomonas aeruginosa* – Method by membrane filtration.
- Marshall, R.T. (1993) Standard methods for the microbiological examination of dairy products, 16th ed.

PRESENTATION

	Contents	Ref.
Nutrient Agar ISO 16266 90 mm ready-to-use plates	20 plates	10044
Nutrient Agar ISO 16266 90 mm ready-to-use plates	100 plates	10044*
Nutrient Agar ISO 16266 Slant tubes	20 x 7 ml tubes	31083
Nutrient Agar ISO 16266 Slant tubes	10 x 7 ml tubes	30083
Nutrient Agar ISO 16266 Bottles	6 x 500 ml bottles	470060
Nutrient Agar ISO 16266 Bottles	6 x 200 ml bottles	412190
Nutrient Agar ISO 16266 Bottles	6 x 100 ml bottles	402190
Nutrient Agar ISO 16266 Dehydrated medium	100 g of powder	620036
Nutrient Agar ISO 16266 Dehydrated medium	500 g of powder	610036
Nutrient Agar ISO 16266 Dehydrated medium	5 kg of powder	6100365

TABLE OF SYMBOLS

LOT Batch code	IVD <i>In vitro</i> Medical Diagnostic Device	 Manufacturer	 Use by	 Fragile, handle with care
REF Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult Instruction For Use	 Do not reuse

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