



Reference : 01-728

Scharlau Microbiology - Technical data sheet

Product :
Pseudomonas Agar Base (ISO)

Specification

Selective medium for *Pseudomonas* species when adding the Selective Supplement CFC or CN.

Formula * in g/L

Gelatin peptone.....	16.00
Casein peptone.....	10.00
Potassium sulfate.....	10.00
Magnesium chloride.....	1.40
Agar.....	14.00

Final pH 7.2 ±0.2 at 25 °C

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

Directions

Add 51,4 g in 1 L of distilled water with 10 mL of Glycerol. Bring to the boil, distribute into containers and sterilize at 121° C for 15 minutes. Cool to 45-50°C and add 2 flask of the CFC Selective Supplement (Ref. 06-726LYO1). Homogenise and pour into plates.

Remarks: for selective medium according to the ISO 16266 Standard, add 2 vials of the Selective Supplement CN (Ref. 06-742LYO1).

Description

This media is specially formulated to be supplemented by CFC Selective Supplement Ref. 06-726LYO1 or Ref. 06-742LYO1 CN Selective Supplement.

Necessary supplements:

CN Selective Supplement (Ref.06-742LYO1)

Necessary amount for 500 mL of complete medium.

Cetrimide..... 100.0 mg

Nalidixic acid, sodium salt..... 7.5 mg

or

CFC Selective Supplement (Ref.06-726LYO1)

Necessary amount for 500 mL of complete medium.

Cetrimide..... 5.0 mg

Fucidin..... 5.0 mg

Cephalosporin..... 25.0 mg

Technique

A volume of the sample is passed through a filter membrane of 0,45 µm pore and the membrane is then placed on the surface of the medium. The plates are incubated à 36 ± 2 °C for a period of 44 ± 4 hours with a partial examination à 22 ± 2 hours (for CN Pseudomonas Agar). The plates are incubated à 25 ± 1 °C for a period of 44 ± 4 hours with a partial examination à 22 ± 2 hours (for CFC Pseudomonas Agar).

All colonies producing a green or blue (pyocyanin) pigmentation in this period may be considered *Pseudomonas aeruginosa* and do not require further conformational testing.

All colonies that produce fluorescence under the Wood's light (without pyocyanin production) are considered presumptive *P. aeruginosa* but must be confirmed on Acetamide Medium.

All colonies producing a brown-reddish pigment and have no fluorescence or pyocyanine are also considered presumptive *P.aeruginosa* and must be confirmed by the oxidase test and by typical growth on Acetamide Medium and King B Agar (F Agar).



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Quality control

Incubation temperature: 25 °C ± 1.0 °C

Incubation time: 44 ± 4 h

Inoculum: Practical range 100 ± 20 CFU. min. 50 CFU (productivity)/ 10⁴-10⁶ CFU (selectivity) according to ISO 11133:2014/Amd 1:2018. MF methods.

Microorganism	Growth	Remarks
<i>Escherichia coli</i> ATCC® 8739	Inhibited	with Selective supplement
<i>Pseudomonas fluorescens</i> ATCC® 13525	Productivity > 0.50	-
<i>Pseudomonas fragi</i> ATCC® 4973	Productivity > 0.50	-

References

- BROWN, V.L. & E.J.L. LOWBURY (1965) Use of an improved Cetrimide Agar Medium and of culture methods for *P. aeruginosa*. J., Clin. Pathol. 18:752.
- GOTO S. & S. ENOMOTO (1970) Nalidixic acid cetrimide agar. A new selective plating medium for the selective isolation of *P. aeruginosa*. Jpn. J. Microbiol. 14:65.
- ISO 16266 Standard (2006) Water Quality. - Detection and enumeration of *Pseudomonas aeruginosa*. - Method by membrane filtration.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 13720 Standard (2010) Meat and meat products. Enumeration of presumptive *Pseudomonas* spp.
- KING, E.O., M.K. WARD & E.E. RANEY (1954) Two simple media for the demonstration of pyocyanin and fluorescein. J. Lab. Clin. Med. 44:301.
- ROBIN, T. & J.M. JANDA (1984) Enhanced recovery of *P. aeruginosa* from diverse clinical specimens on a new selective agar. Diag. Microbiol. Infect Dis. 2:207.
- SCHWEIZERISCHE LEBENMITTELSBUCH (2005) Kap. 56 Mikrobiologie. Bundesamt für Gesundheit. Direktionsbereich Verbraucherschutz. Bern.

Storage

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