

# TECHNICAL DATA SHEET

Article no.: 8895.0500

**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	
Potassium sulfate	10.00
Magnesium chloride	1.40
Agar	14.00

Final pH 7.2 ±0.2 at 25 °C

### **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 flasks of the CFC Selectiive Supplement (Ref. 8897.0010), or 2 flasks of the CN Selectiive Supplement (Ref. 8898.0010). Homogenise and pour into plates.

#### **DESCRIPTION**

This medium is specially formulated to be supplemented by CFC Selective Supplement Ref. 8897.0010, or CN Selective Supplement Ref. 8898.0010.

#### **Necessary supplements:**

CFC Selective Supplement (Ref. 8897.0010.)
Necessary amount for 500 ml of complete medium.
Cetrimide 5.0 mg
Fucidin 5.0 mg
Cephalosporin 25.0 mg

or

CN Selective Supplement (Ref.8898.0010)

Necessary amount for 500 mL of complete medium.

Cetrimide 100.0 mg

Nalidixic acid, sodium salt 7.5 mg



<sup>\*</sup>Adjusted and /or supplemented as required to meet performance criteria



#### **TECHNIQUE**

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

# **QUALITY CONTROL**

Incubation Temperature:  $25 \,^{\circ}\text{C} \pm 1.0 \,^{\circ}\text{C}$ Incubation Time:  $44 \pm 4 \,^{\circ}\text{h}$ 

Inoculum: Practical range 100 ± 20 CFU. min. 50 CFU (productivity)/ 10<sup>4</sup>-10<sup>6</sup> CFU (selectivity)

according to ISO 11133:2014/Amd 1:2018. MF methods.

Microorganism	Growth	Remarks
Escherichia coli ATCC® 8739	Inhibited	with Selective supplement
Pseudomonas fluorescens ATCC® 13525	Productivity > 0.50	-

#### **REFERENCES**

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- · ISO 16266 Standard (2006) Water Quality. Detection and enumeration of Pseudomonas aeruginosa. Method by membrane filtration.
- . ISO 11133:2014. 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 pyocianin 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).

