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 ºC
* 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 45-50ºC and add 2 flask of the CFC Selectiive Supplement (Ref. DSHB3020). Homogenise and pour into plates.
Remarks: for selective medium according to the ISO 16266 Standard, add 2 vials of the Selective Supplement CN (Ref. DSHB3092).

Description

This media is specially formulated to be supplemented by Ref. 921611NL CN Selective Supplement, or CFC Selective Supplement Ref. 921612NL.

Necessary supplements:

CN Selective Supplement (Ref.DSHB3092)
Necessary amount for 500 mL of complete medium.
Cetrimide..... 100.0 mg
Nalidixic acid, sodium salt..... 7.5 mg

or

CFC Selective Supplement (Ref. DSHB3020)
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 at 36 ± 2 ºC for a period of 44 ± 4 hours with a partial examination at 22 ± 2 hours (for CN Pseudomonas Agar). The plates are incubated at 25 ± 1 ºC for a period of 44 ± 4 hours with a partial examination at 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).

Quality control

Incubation temperature: 25 ºC ± 1.0 ºC **Incubation time:** 44 ± 4 h

Inoculum: Practical range 100 ± 20 CFU. min. 50 CFU (productivity)/ 10^4-10^6 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	-
Pseudomonas fragi 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.
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· 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 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 ºC to 30 ºC).