

Specification

Solid culture medium for selective isolation of *Pseudomonas aeruginosa* according to the Pharmacopeial Harmonised Method.

Presentation

20 Prepared Plates
90 mm
with: 21 ± 2 ml

Packaging Details

1 box with 2 packs of 10 plates/pack. Single BOPP film. Every pack exhibits a irradiation indicator stacked on the side of the bag (8-14 KGy), with desiccant.
LATERAL LABELLING

Shelf Life

6 months

Storage

15-25 °C

Composition

Composition (g/l):

Gelatin Peptone.....	20.00
Magnesium chloride.....	1.40
Potassium sulfate.....	10.00
Cetrimide.....	0.30
Agar.....	13.60
Glycerol.....	10.00 ml

Description /Technique

Description

The Cetrimide Agar is based on the resistance of *P. aeruginosa* strains to Quaternary Ammonium Compounds (QAC's). With Cetyltrimethyl-Ammonium Bromide a growth at concentrations of 1g/L has been achieved, but has been very poor and slow. An inhibitor concentration of 0,3-0,5 g/L does not seem to affect the viability of pyogenic species. But it does inhibit the accompanying bacteria, both Gram positive and Gram negative organisms. Other species of *Pseudomonas* which may develop at lower inhibitory concentrations are also inhibited.

Although *P. aeruginosa* prevails over any other fastidious bacteria after a 48 hour incubation at 30-35°C, an initial incubation at 42°C for 48 hours followed by an incubation at 35°C for 48 hours is recommended. Using this method almost complete inhibition of other microorganisms is obtained.

Technique

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Once solidified on a flat surface, spread the plate streaking methodology or by spiral method.

Incubate the plates right side up aerobically at 30-35 °C for 18-72 h.

(Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications,...)

After incubation, enumerate all the colonies that have appeared onto the surface of the agar with a blue-greenish colour (due to pigment production by *Pseudomonas* sp)

Each laboratory must evaluate the results according to their specifications.

Presumptive isolation of *Pseudomonas* sp must be confirmed by further microbiological or biochemical tests.

Quality control**Physical/Chemical control**

Color : Off-white / opalescent pH: 7.2 ± 0.2 at 25°C

Microbiological control

Inoculate with 10-100 CFU according to harmonized Pharmacopoeia or with 100-1000 CFU for selectivity.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 30-35°C. Reading at 18-72h

Microorganism

Escherichia coli ATCC® 8739, WDCM 00012

Ps. aeruginosa ATCC® 9027, WDCM 00026

Ps. aeruginosa ATCC® 27853, WDCM 00025

Ps. aeruginosa ATCC® 10145, WDCM 00024

Growth

Inhibited

Good (≥ 50%) Green-yellowish to dark green colonies

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Sterility control

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

Check at 7 days after incubation in same conditions.

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