

## Specification

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

## Presentation

10 Prepared bottle  
Bottle 125 ml  
with:  $100 \pm 3$  ml

### Packaging Details

1 box with 10 bottles 125 ml. Non injectable cap

### Shelf Life

16 months

### Storage

8-25°C

## Composition

Compositin (g/l):

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

## 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.

### Technique:

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

Melt the medium contained in bottles in a water bath or in a microwave oven, avoiding overhating, before pouring into Petri dishes when cooled to room temperature.

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 18-72h.

(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

Melting - pour plates - inoculation Practical range 100±20 CFU; Min. 50 CFU (Productivity) / 10<sup>4</sup>-10<sup>6</sup> CFU (Selectivity)

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

### Microorganism

*Ps. aeruginosa* ATCC® 27853, WDCM 00025

*Ps. aeruginosa* ATCC® 9027, WDCM 00026

*Ps. aeruginosa* ATCC® 10145, WDCM 00024

*Escherichia coli* ATCC® 8739, WDCM 00012

### Growth

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

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Inhibited

### Sterility Control

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

Check at 7 days after incubation in same conditions

## Bibliography

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