

PRODUCT CODE: 456256

Cetrimide Agar (Ph. Eur.) (Prepared Plate (Ø 90 mm)) for microbiology

Specification

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

Presentation

20 Prepared Plates	Packaging Details	Shelf life	Storage
90 mm with: 21 ± 2 ml.	1 box with 2 packs of 10 plates/pack. Single cellophane.	3 months	2-14°C

Description and 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	Microbiological control	Sterility control
Color: Off-white / opalescent pH: 7.2 ± 0.2 at 25°C	Growth Promotion Test according to harmonized pharmacopoeial monographs and test methods & ISO 11133:2014 Spiral Spreading: Practical range 100±20 CFU; Min. 50 CFU (Productivity) / 10 ⁴ -10 ⁶ CFU (Selectivity). Aerobiosis. Incubation at 30-35°C. Reading at 18-72h	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
Microorganism	Growth	
<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Inhibited	
<i>Ps. aeruginosa</i> ATCC® 9027, WDCM 00026	Good (≥ 50%) Green-yellowish to dark green colonies	
<i>Ps. aeruginosa</i> ATCC® 27853, WDCM 00025	Good (≥ 50%) Green-yellowish to dark green colonies	
<i>Ps. aeruginosa</i> ATCC® 10145, WDCM 00024	Good (≥ 50%) Green-yellowish to dark green colonies	

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