

TECHNICAL DATA SHEET

Article No. 9248

Cetrimide Agar, prepared plates

SYNONYMS

Pseudosel Agar, Pseudomonas selective agar, Medium N

SPECIFICATION

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

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

COMPOSITION IN G/L

Gelatin peptone	20.00
Magnesium chloride	1.40
Potassium sulfate	10.00
Cetrimide	0.30
Agar	13.60
Glycerol	10 ml

PACKAGING DETAILS

9248-20PLATES

20 prepared plates 90 mm

Content: 21 ±2 ml

Packaging unit: 1 box with 2 packs of 10 plates/pack. Single cellophane.



GUIDELINES

Description:

Cetrimide Agar is based on the resistance of *P. aeruginosa* 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 inhibited as well.

Although *P. aeruginosa* prevails over any other fastidious bacteria after an 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. By 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. Spread the plate by streaking or by spiral method. Incubate the plates aerobically at 30-35 °C for 18-72 h. Incubation times longer than this or different incubation temperatures may be required depending on the sample and on the specifications.

After incubation, enumerate all the colonies with a blue-greenish color (due to pigment production by *Pseudomonas* spp.) that have appeared on the agar surface.

Each laboratory must evaluate the results according to their specifications. Presumptive isolation of *Pseudomonas* spp. must be confirmed by further microbiological or biochemical tests.

MICROBIOLOGICAL CONTROL

Inoculate: 50-100 CFU (productivity)/ 10³-10⁴ CFU (selectivity), acc. to harmonised pharmacopoeial monographs and test methods & ISO 11133:2014/A1:2018.

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

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

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

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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STORAGE

2-14 °C

SHELF LIFE

3 months

