PRODUCT CODE: 443752

Pseudomonas CN (EN ISO 16266) (Prepared Plate (@ 55 mm)) for microbiology

Specification

Selective solid medium used for the detection of *Pseudomonas aeruginosa* according to ISO 16266 Standard.

Presentation

30 Prepared Plates	Packaging Details	Shelf life	Storage
55 mm Plates for filtration purposes with: 9 ± 1 ml.	1 box containing 5 plastic bags with 6 plates of 55 mm / bag.	6 months	2-25ºC

Description and Technique

Description

The CN Selective Medium for *Pseudomonas* was progressively developed from the basic media of King, Ward and Raney for the production of pigments. Browne and Lowbury add the cetrimide as selective agent and Goto and Enomoto improves efficiency by adding nalidixic acid.

The presence of both inhibitors eliminates the contaminant microbiota from heavily polluted specimens and was adopted by ISO Standard for the detection of *Ps. aeruginosa* by filtering membrane in water.

Technique

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

Filter the sample through a 0.45 mm Ø pore membrane and apply it onto the surface of the agar.
Incubate the plates air room atmosphere at 36 ± 2ºC for 44±4h. (Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications).

After incubation, count the colonies with a blue-greenish appearance due to pigment production by *Pseudomonas sp*. Calculate total microbial count per ml of sample by multiplying the average number of colonies per plate by the inverse dilution factor.

Report results as Colony Forming Unit (CFU) per ml along with incubation time and temperature. Presumptive isolation of *Pseudomonas sp* must be confirmed by further tests.

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Quality control

Physical/Chemical control	Microbiological control	Sterility control
Color: Off-white / opalescent. pH: 7.1 ± 0.2 at 25ºC	Membrane Filtration /Practical range 100±20 CFU; Min. 50 CFU (Productivity)./10^4 -10^6 CFU for Selectivity. Microbiological control according to ISO 11133. Aerobiosis. Incubation at 36 ± 2ºC, reading at 44±4h.	Incubation 48 hours at 30-35ºC and 48 hours at 20-25ºC: NO GROWTH Check at 7 days after incubation in same conditions

Microorganism	Growth
Ps. aeruginosa ATCC® 9027, WDCM 00026	Good (≥ 50 %)
Ps. aeruginosa ATCC® 27853, WDCM 00025	Good (≥ 50 %)
Ps. aeruginosa ATCC® 10145, WDCM 00024	Good (≥ 50 %)
Escherichia coli ATCC® 8739, WDCM 00012	Inhibited
Enterococcus faecalis ATCC® 29212, WDCM 00087	Inhibited

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