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CHROMAGAR PSEUDOMANAS

INTENDED USE:

Chromogenic medium for isolation and detection of Pseudomonas species.

PRINCIPLE AND INTERPRETATION:

Clinical issue: Their ability to resist to many antibiotics and antiseptics explains their increasingly frequent presence in hospitals. They behave as opportunistic pathogens, often causing nosocomial infections. According to data from the CDC's National Nosocomial Infections Surveillance System, P.aeruginosa can be rated as the number 1 cause of intensive care unit (ICU)– related pneumonia.

Food industry and environmental issues: P.aeruginosa is a valid indicator for recreational water disinfection efficacy. This parameter is currently used as a criterion in the regulation of wading and swimming pools. Moreover, P.aeruginosa is important not only in terms of its role as an indicator, but also because it is an opportunistic pathogen whose transmission is often associated with water.

COMPOSITION:

Ingredients	Gr/Liter
Peptone	20 gr
Chromogenic mix	2,5 gr
Salts	8 gr
Agar	15 gr

***Formula adjusted, standardized to suit performance parameters

pH: 7,5 ± 0,2

PRECAUTIONS:

For professional use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

TEST PROCEDURE:

Related samples can be processed by the usual surface technique procedure w/o a prior appropriate enrichment step:

• If the agar plate has been refrigerated, allow to warm to room temperature before inoculation.

• Streak sample onto plate:

→ By direct streaking on the plate.

→ By spreading on the plate.

→ With the filtration technique, by placing the inoculated membranes on the plate surface.

Advice 2: We advise to use polycarbonate filters to meet the optimal performance.

• Incubate in aerobic conditions at 30 °C for 24-36 h.

Warning 2: For some fragile Pseudomonas, extend incubation to 48 h when necessary (small colonies etc.).

Advice 3: If research is focused on Pseudomonas aerug

QUALITY CONTROL:

1.Sterility Control:

Incubation 48 hours at 30-35ºC and 72 hours at 20-25ºC: NO GROWTH

2.Phsical/Chemical Control

pH: 7,5 ± 0,2

Apperance: Light amber

3.Microbiological Control: Incubation at 30 ºC during 18-24 h.

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Pseudomonas aeruginosa ATCC 9027	10-100	Growth	Blue, green
Pseudomonas aeruginosa ATCC 27853	10-100	Growth	Blue, green with diffusion
Staphylococcus aureus ATCC 25923	100-1000	Inhibition	-
E. faecalis ATCC 29212	100-1000	Inhibition	-
E. coli ATCC 25922	100-1000	Inhibition	-

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STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at 2- 12°C. Use before expiry date on the label. Do not use beyond stated expiry date.

DISPOSAL:

Incubated prepared medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected plate should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

PACKAGING:

Katalog Number: 02018
Packaging: Single wrap
Content: 10 plates/each package

REFERENCES:

1- En 12322:1999 – In vitro diagnostic medical devices – Culture media for microbiology – Performance criteria for culture media.
2- Clinical and Laboratory Standards Institute.2004. Approved Standard: M22-A3, Quality control for commercially prepared microbiological culture media,3rd ed
3- ISO11133_Microbiology of food, animal feed and water-Preparation, production storage and performance testing of culture media.