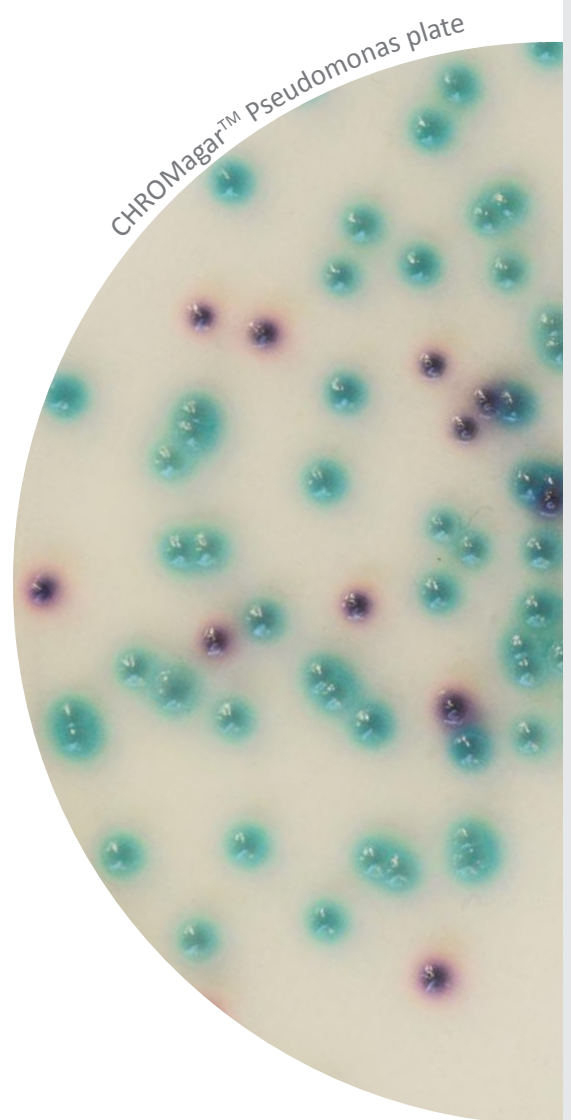


CHROMagar™ **Pseudomonas**



MEDIUM PURPOSE

Chromogenic medium for isolation and detection of *Pseudomonas* species.

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

The product is composed of a powder base.

Product	=	Pack
Total g/L		45.5 g/L
Composition g/L		Agar 15.0 Peptones 20.0 Salts 8.0 Selective and Chromogenic mix 2.5
Aspect		Powder Form
STORAGE		15-30°C
FINAL MEDIA pH		7.5 +/- 0.2

PREPARATION (Calculation for 1L)

Step 1

Preparation of the mix

- Disperse slowly 45.5 g of powder base in 1L of purified water.
- Stir until agar is well thickened.
- Heat and bring to boiling (100°C) while swirling or stirring regularly. DO NOT HEAT TO MORE THAN 100°C. DO NOT AUTOCLAVE AT 121°C.

Warning 1: If using an autoclave, do so without pressure.

Advice 1: For the 100°C heating step, mixture may also be brought to a boil in a microwave oven: after initial boiling, remove from oven, stir gently, then return to oven for short repeated bursts of heating until complete fusion of the agar grains has taken place (large bubbles replacing foam).

Step 2

Pouring

- Cool in a water bath to 45-50°C, swirling or stirring gently.
- Pour medium into sterile Petri dishes.
- Let it solidify and dry.

Storage

- Store in the dark before use.
- Prepared media plates can be kept for one day at room temperature.
- Plates can be stored for up to one month under refrigeration (2/8°C) if properly prepared and protected from light and dehydration.

INOCULATION

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 24-36h.

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

Advice 3: If research is focused on *Pseudomonas aeruginosa*, incubate at 37°C during 24h.

Typical Samples

Clinical: sputum
Food Industry: water, meat, air, surfaces samples

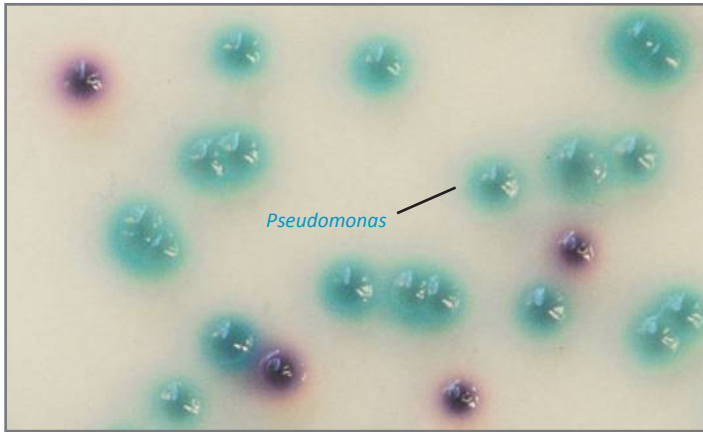
Possible enrichment step or filtration
Direct streaking or spreading technique

CHROMagar™ Pseudomonas

INTERPRETATION

Microorganism	Typical colony appearance
<i>Pseudomonas</i> spp.	→ blue green
Most of <i>Enterobacteriaceae</i>	→ mauve to violet or inhibited
Gram + bacteria	→ inhibited

Typical colony appearance



The pictures shown are not contractual.

PERFORMANCE & LIMITATIONS

- Confirmation test is required for a final identification as *Pseudomonas*.
- An oxidase test can be performed directly from suspected colony as a confirmation test of *Pseudomonas* spp (oxidase positive).
- Some multi-resistant gram (-) may grow as false positive.

QUALITY CONTROL

Please perform Quality Control according to the use of the medium and the local QC regulations and norms. Good preparation of the medium can be tested, isolating the ATCC strains below:

Microorganism	Typical colony appearance
<i>P.aeruginosa</i> ATCC® 9027	→ blue green with diffusion
<i>P.aeruginosa</i> ATCC® 10145	→ blue green with diffusion
<i>Klebsiella</i> ATCC® BAA-1705	→ violet
<i>S.aureus</i> ATCC® 25923	→ inhibited
<i>E.faecalis</i> ATCC® 29212	→ inhibited
<i>E.coli</i> ATCC® 25922	→ inhibited

WARNINGS

- Do not use plates if they show any evidence of contamination or any sign of deterioration.
- Do not use the product beyond its expiry date or if product shows any evidence of contamination or any sign of deterioration.
- For Laboratory use. This laboratory product should be used only by trained personnel in compliance with good laboratory practices.
- Any change or modification in the procedure may affect the results.
- Any change or modification of the required storage temperature may affect the performance of the product.
- Unappropriate storage may affect the shelf life of the product.
- Recap the bottles tightly after each preparation and keep them in a low humidity environment, protected from moisture and light.
- For a good microbial detection: collection and transport of specimen should be well handled and adapted to the particular specimen according to good laboratory practices.

DISPOSAL OF WASTE





After use, all plates and any other contaminated materials must be sterilized or disposed of by appropriate internal procedures and in accordance with local legislations. Plates can be destroyed by autoclaving at 121°C for at least 20 minutes.


REFERENCES

Please refer to our website page «Publications» for scientific publications about this particular product.

Web link: <http://www.chromagar.com/publication.php>

IFU/LABEL INDEX

-  Quantity of powder sufficient for X liters of media
-  Expiry date
-  Required storage temperature
-  Store away from humidity

Pack Size	Ordering References	Weight
 1000 ml 50 Tests of 20ml	PS830	Weight: 45.5 g
5000 ml 250 Tests of 20ml	PS832	Weight: 227.5 g
25 L 1250 Tests of 20ml	PS833-25	Weight: 1137.5 g
Bulk size	on request	

Need some Technical Documents?

- Available for download on www.CHROMagar.com
- Certificate of Analysis (CoA) --> One per Lot
- Material Safety Data Sheet (MSDS)

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