CHROMagar™ **Orientation**





CHROMagar 4 place du 18 juin 1940 75006 Paris - France Email: CHROMagar@CHROMagar.com Tel +33 (0)1.45.48.05.05. Website: www.CHROMagar.com Instructions For Use

CHROMagar™ **Orientation**

MEDIUM PURPOSE

Chromogenic medium for the isolation and differentiation of urinary tract pathogens.

COMPOSITION

The product is composed of a single powder base.

Product =	Base
Total g/L	33.0 g/L
Composition g/L	Agar 15.0 Peptone and yeast extract 17.0 Chromogenic mix 1.0
Aspect	Powder Form
STORAGE	15-30°C
FINAL MEDIA pH	7.0 +/- 0.2

PREPARATION (Calculation for 1L)

Step 1 Preparation of the mix	 Disperse slowly 33g of powder base in 1L of purified water. Stir until agar is well thickened. Advice 1 (optional): For enhanced growth, add 0.5g of Tween 80 to the previous preparation mix. Heat and bring to boil (100°C) while swirling or stirring regularly. Advice 2: 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). AUTOCLAVE at 121°C during 15 min.
Step 2 Pouring	 Cool in a water bath to 45-50°C, swirling or stirring gently. Pour 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 2 months under refrigeration (2/8°C) if properly prepared and protected from light and dehydration.

INOCULATION

Related samples can be processed by direct streaking on the plate, as well as prior appropriate enrichment step.

- If the agar plate has been refrigerated, allow to warm to room temperature before inoculation.
- Streak sample onto plate.
- Incubate in aerobic conditions at 37°C for 18-24 hours.

INTERPRETATION

Microorganism	Typical colony appearance	Microorganism	Typical colony appearance
Gram (-)		Gram (+)	
E.coli	ightarrow dark pink to reddish	Enterococcus	ightarrow turquoise blue
Klebsiella, Enterobacter,	\rightarrow metallic blue (+/- reddish halo)	S.aureus	ightarrow golden, opaque, small
Citrobacter, Serratia	Citrobacter, Serratia	S.epidermidis	ightarrow cream, pinpoint colonies
Proteus, Morganella, Providencia	\rightarrow brown halo	S.saprophyticus	→ pink, opaque, small
Proteus vulgaris	ightarrow blue with brown halo	StrepB	ightarrow light blue
Pseudomonas	→ translucent (+/- natural pigmentation cream to green)	Yeasts	
Acinetobacter	→ cream	Candida albicans	ightarrow cream, pinpoint colonies
Stenotrophomonas	\rightarrow colourless		

Typical Samples

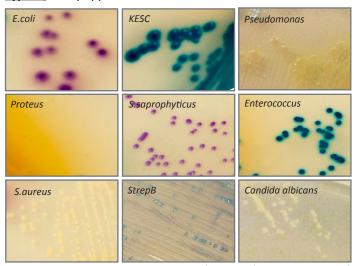
e.g. urine

Possible enrichment step

Direct streaking

or spreading technique

Typical colony appearance



The pictures shown are not contractual.

PERFORMANCE & LIMITATIONS

- Sensitivity for *E.coli* is 99.3% (Merlino et al. 1996).
- Most of Serratia Plymutica will grow mauve.

• Final identification may require additional testing such as biochemical or immunological test:

Colonies	Suggested tests	Possible identification
Red	Indole Test: The medium allows indole test for confirmation of <i>E.coli</i>	Indole (+) > <i>E.coli</i>
brown halo	TDA test (with FeCl ₃ Test) for confirmation of <i>Proteus</i> .	(+)> Proteus vulgaris (blue colony center, Morganella, Providencia. (-)> Proteus mirabilis
Turquoise blue, small gram stain + cocci appearance	PYR test (or serological or hemolysis)	PYR (+)> Enterococcus PYR (-)> Streptococcus B

QUALITY CONTROL

Pack Size

1000 ml

5000 ml

25 L

Bulk size

50 Tests of 20ml

250 Tests of 20ml

1250 Tests

of 20ml

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
E.faecalis ATCC [®] 29212	\rightarrow turquoise blue
E.coli ATCC [®] 25922	\rightarrow reddish
S.aureus ATCC [®] 12600	ightarrow golden yellow
S.epidermidis ATCC [®] 12228	\rightarrow colourless

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Ordering References

RT410

RT412

RT413-25

on request

Microorganism	Typical colony appearance
S.saprophyticus ATCC® 15305	\rightarrow pink
K.pneumoniae ATCC® 13883	\rightarrow metallic blue

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 *in vitro* diagnostic 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 propriate 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

Need some Technical Documents?

:	
i	Available
	for download on
-	www.CHROMagar.com
-	-

- Certificate of Analysis (CoA) --> One per Lot
- Material Safety Data Sheet (MSDS)

IVD

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Weight: 33gr

Weight: 165gr

Weight: 825gr