

CHROMagar™ Orientation Agar | Ready-to-use Media

Effective Date: 18/11/2025

REF FP90O1004

a product by Biomed MDX



Intended Use:

CHROMagar™ Orientation is intended for the isolation and differentiation of urinary tract pathogens from urine samples.

Principle of the Procedure:

The CHROMagar™ Orientation Medium is a differential chromogenic medium that enables the simultaneous isolation and presumptive identification of urinary tract pathogens (UTPs). This is achieved by incorporating multiple proprietary chromogenic substrates. Specific microbial enzymes produced by target organisms hydrolyze these substrates, releasing an insoluble, colored chromophore that accumulates within the colony structure. This enzymatic action results in species-specific colony colors, allowing for rapid differentiation and enumeration directly from urine specimens, followed by further confirmation tests.

Product Summary:

CHROMagar™ Orientation Medium is a differential chromogenic agar designed for the rapid isolation, enumeration, and presumptive identification of urinary tract pathogens (UTPs) directly from urine samples. By utilizing proprietary substrates, the medium generates species-specific colony colors (chromophores) via enzymatic cleavage, significantly accelerating the diagnosis of UTIs.

Formulation* (PER LITER):

Peptones and yeast extract	17.0g	Agar	15.0g
Chromogenic mix	1.0g		

pH 7.0 +/- 0.2

*Adjust and/or supplemental as required to meet performance criteria

Procedure

Materials Provided

90mm Orientation Agar.

Materials Required But Not Provided

Ancillary culture media, reagents, and laboratory equipment as required.

Test Procedure

1. Inoculate and streak the specimen as soon as possible after it is received in the laboratory with an aseptic technique.
2. Incubate at $35 \pm 2^\circ\text{C}$ for 24 to 48 hours.
3. Observe the result according to user requirements.
4. Dispose of all used reagents and contaminated materials as infectious waste. Laboratories must handle and dispose of all waste safely according to regulations.

Results

Examine for colonies exhibiting colonial morphology. Appropriate biochemical or immunological tests may be required for final identification

Quality Control

Inoculate representative samples with the following strains. Incubate the inoculated plates at $35 \pm 2^\circ\text{C}$ for 24 to 48 hrs. to allow colonies to develop on the medium.

Strains	ATCC®	Growth Results
<i>Enterococcus faecalis</i>	29212	Turquoise blue
<i>Streptococcus agalactiae</i>	12386	Light blue
<i>Staphylococcus aureus</i>	25923	Golden, opaque, small
<i>Escherichia coli</i>	25922	Dark pink to reddish
<i>Klebsiella aerogenes</i>	13048	Metallic blue (+/- reddish halo)
<i>Proteus vulgaris</i>	8427	Blue with brown halo
<i>Candida albicans</i>	10231	Cream, pinpoint colonies
Uninoculated plate	-	No growth

Transportation:

Temperature fluctuations may occur during transportation. However, these fluctuations do not affect the performance, quality, or safety of the media.

Storage and Shelf Life:

Upon receipt, store plates at 2 to 8°C, in dark and light sensitive areas, in their original sleeve wrapping until just before use. Avoid freezing and overheating.

The plates may be inoculated up to the expiration date (see package label) and incubated for the recommended incubation times.

Warning and Precautions:

For in vitro diagnostic use. For Professional Use Only. Do Not Reuse.

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













Limitations of the Procedure

This medium is for laboratory use only and is not intended for the diagnosis of disease or other conditions. Identifications are presumptive and colonies should be identified using appropriate methods

Reference


1. Lüthje, P., Pranada, A. B., Carruthers-Lay, D., Desjardins, M., Gaillot, O., Wareham, D., Ciesielczuk, H., & Özenci, V. (2017). Identification of microorganisms grown on chromogenic media by MALDI-TOF MS. *Journal of Microbiological Methods*, 136, 17–20. <https://doi.org/10.1016/j.mimet.2017.03.001>

Packaging Symbol

Symbol	Definition
	Catalogue number
	In Vitro Diagnostic Medical Device
	Batch code
	Date of manufacture
	Temperature limit
	Use-by date
	Keep away from sunlight
	Do not re-use
	Fragile, handle with care
	Consult instructions for use or consult electronic instructions for use
	Do not use if packaging damaged and consult instructions for use
	Manufacturer

Further Information:

For further information please contact your Biomed MDX representative.

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