

AG – CHROMagar™ Orientation - INSTRUCTIONS FOR USE

(Ready Plated Media)

• INTENDED USE:

Chromagar is a non-selective chromogenic culture medium designed for detection and differentiation of uropathogens to support the diagnosis of urinary tract infections (UTIs). Presumptive identification of microorganisms based on colony color and morphology. Applications in both clinical and veterinary fields, using urine or related samples.

• PRINCIPLE:



CHROMagar™ orientation: *Enterococcus faecalis* (turquoise blue)

- **Rapid and Direct Identification:** Chromogenic agents enable quick visual differentiation of common pathogens, reducing reliance on additional testing. Examples include *E. coli* (dark pink/red colonies) and *Klebsiella* spp. (metallic blue colonies).
- **Broad Application:** Can identify both Gram-positive and Gram-negative bacteria, as well as yeasts like *Candida albicans*.
- **Facilitates Workflow:** Reduces time to presumptive identification compared to traditional biochemical methods. Enhances efficiency in clinical laboratories dealing with high sample volumes.
- **High Sensitivity and Specificity:** Sensitivity: 100% for detecting uropathogens. Specificity: High accuracy for *E. coli* (99.3%), based on clinical studies.
- **Supports Additional Testing:** Allows for complementary biochemical or immunological tests directly from colonies."

• MATERIALS PROVIDED:

PRODUCT	TYPE	REF	PACK
AG – CHROMagar™ Orientation Plate - 90mm	Ready Plated Media	AG/CHUTI/22/01	10 plates in a pack

• MATERIALS REQUIRED BUT NOT PROVIDED:

Sterile loops, incubator, and laboratory equipment as required.

• SPECIMENS:

- In clinical field: urine
- In veterinary field: veterinary samples

• TEST PROCEDURE, READING AND INTERPRETATION:

Roll the swab over a small area of the surface at the edge; then streak from this inoculated area onto a CHROMagar™ orientation plate. Incubate for 16-24 hours at 37°C and observe the development of purple to blue colonies of methicillin resistant *Staphylococci*.

• USER QUALITY CONTROL:

All manufactured lots of the products are released for sale after the Quality Control has been performed to check the compliance with the specifications. However, the end user can perform its own Quality Control in accordance with the local applicable regulations, in compliance with accreditation requirements and the experience of the Laboratory. Here below are listed some test strains useful for quality control.

CONTROL STRAINS	INCUBATION	EXPECTED RESULTS
<i>E.coli</i> ATCC 25922	37 ± 2°C, 16-24 hrs	Good growth, purple to blue colonies
<i>Enterococcus faecalis</i> ATCC 29212	37 ± 2°C, 16-24 hrs	Good growth, turquoise blue

Key: ATCC is a trademark of American Type Culture Collections

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LIMITATIONS OF THE METHOD:

- Supplementary Testing Required: Additional confirmation (e.g., indole or PYR tests) is necessary for definitive identification of certain species.
- Dependency on Storage and Preparation: Prepared plates must be stored under strict conditions (dark, low humidity, 2–8°C) to ensure performance. Shelf life of prepared plates is limited (up to 2 months)."

PRECAUTIONS AND WARNINGS:

- This product is for microbiological control and for professional use only; it is to be used by adequately trained and qualified laboratory personnel, observing approved biohazard precautions and aseptic techniques.
- All laboratory specimens should be considered infectious.
- The laboratory area must be controlled to avoid contaminants such as culture medium or microbial agents.
- Sterilize all biohazard waste before disposal. Dispose of the unused medium and the sterilized plates inoculated with samples or microbial strains in accordance with current local legislation.
- The Certificates of Analysis of the product are available with AstraGene and can be provided on request.

STORAGE CONDITIONS AND SHELF LIFE:

- Upon receipt, store at +2 - 8°C away from direct light in a cool, dry place. The user is responsible for the storage method (temperature) of the medium.
- If properly stored, the product may be used up to the expiration date. Do not use it beyond the mentioned expired date.

SYMBOLS:



Date of manufacture



Use-by-date



Do not use if package is damaged



Manufacturer



Batch Code



Refer to the instructions



ISO



GMP



In-Vitro diagnostic Medical devices



Mark of conformity



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