

AG – CHROMOGENIC MRSA - INSTRUCTIONS FOR USE

(Ready Plated Media)

• INTENDED USE:

CHROMagar™ MRSA is a selective and differential chromogenic medium designed for the qualitative direct detection of colonization by methicillin-resistant *Staphylococcus aureus* (MRSA). It is primarily used in healthcare settings to aid in the prevention and control of MRSA by screening anterior nares or perineal swab specimens from patients and healthcare workers. Results can be interpreted after 18-24 hours of aerobic incubation at 35-37 °C.

• PRINCIPLE:



Chromogenic MRSA: MRSA

MRSA Chromogenic Agar is a chromogenic medium for the detection and differentiation of methicillin resistant *Staphylococcus aureus*. Methicillin resistant *Staphylococcus aureus*, MRSA, are of particular interest at an international level due to its virulence and resistance to multiple antibiotics. Antimicrobial resistance is a serious threat to public health as it is now regarded as a major hospital acquired disease worldwide. The important changes observed in the epidemiological and microbiological characteristics of the infections caused by *Staphylococcus aureus* are the reason for the increment and prevalence of methicillin-resistant *Staphylococcus aureus* nosocomial (associated to hospitalized patients) and the proliferation of methicillin-resistant *Staphylococcus aureus* acquired by the community. MRSA continues to be a serious problem in many healthcare centres; more than 50% of the *Staphylococcus aureus* obtained are from Intensive Care Units (ICU) and close to 40% are from hospital patients. Effective, rapid laboratory diagnosis and susceptibility testing is critical in treating, managing, and preventing MRSA infections.

• MATERIALS PROVIDED:

PRODUCT	TYPE	REF	PACK
AG – Chrom MRSA Agar Plate - 90mm	Ready Plated Media	AG/CHMR/22/01	10 plates in a pack

• MATERIALS REQUIRED BUT NOT PROVIDED:

Sterile loops, incubator, and laboratory equipment as required.

• SPECIMENS:

T The sample consists of bacterial colonies isolated from human 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 chrom MRSA Agar plate. Incubate for 18-24 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
MRSA ATCC 43300	37 ± 2°C, 18-24 hrs	Good growth, purple to blue colonies
<i>S. aureus</i> ATCC 25923	37 ± 2°C, 18-24 hrs	Inhibited

Key: ATCC is a trademark of American Type Culture Collections

• LIMITATIONS OF THE METHOD:

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- Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.
- Biochemical tests and serological procedures must be performed to confirm presence of *L. pneumophila*.

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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