Reading the Results

Evaluation

Colonies of Methicillin Resistant *Staphoycoccus aureus* (MRSA) appear rose to mauve. Methicillin Susceptible *Staphoycoccus aureus* (MSSA) is inhibited. Other non-resistant bacteria or yeast are blue, colorless or inhibited.

MRSA strain	
S. aureus	Rose to pink-mauve with matte halo
MSSA strain	
S. aureus	Inhibited
Other Gram (-), (+)	
bacteria and yeast	Inhibited

Limitations

For in vitro diagnostic use only by compliant and trained professional laboratory personnel.

InTray COLOREX MRSA is not intended to diagnose infections by MRSA, guide or monitor treatment for infections, or provide susceptibility results for MRSA. Further confirmatory identification as MRSA, e.g., by biochemical tests such as latex agglutination, *mecA* gene PCR, and/or disc diffusion method for oxacillin and cefoxitin, is required.[1] Do not use any InTray that is beyond its expiry date.

InTray COLOREX MRSA is an agar medium that is susceptible to condensation collection within the inner seal, especially when stored at low temperatures and/or having been exposed to extreme temperature fluctuations. If moisture is visible on the surface of the InTrays, dry them (with the seal removed and InTray label in a position allowing for air flow) under a BSL-2 cabinet just prior to inoculation. There should be no visible droplets of moisture on the surface of the agar when they are inoculated. The surface of the dried medium should be smooth and should not show signs (webbed ribbing pattern on the agar surface) of desiccation.

References

1. Goodwin KD and M Pobuda (2009) Performance of CHROMagar™ Staph aureus and CHROMagar™ MRSA for detection of *Staphylococcus aureus* in seawater and beach sand – Comparison of culture, agglutination, and molecular analyses. Water Research 43 (4802–4811).

Scan for additional product information

Symbol glossary: biomeddiagnostics.com/l/symbol-glossary

IFU Translations: biomeddiagnostics.com

Document Revision History

Rev. C, October 2019

New format; added new catalog numbers, limitation about condensation, reference to online symbol glossary and IFU translations, document revision history; specified 18-25°C instead of room temperature; specified 35-37°C for incubation instead of 37 ± 2°C; reorganized and retitled some sections

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100-449 IFU InTray COLOREX MRSA-EU ONLY Rev. C (10/2019)

BIOMED

InTray® COLOREX™ MRSA

REF 11-453-001 Σ 5

REF 11-453-002 Σ 20

Not available in all countries; please inquire.

For In Vitro Diagnostic Use

CE IVD 2°C–8°C

Download Certificate of Analysis

Introduction

Intended Use

COLOREX™ MRSA is a selective and differential chromogenic medium, containing selective agents that exhibit high sensitivity and specificity for the isolation of Methicillin Resistant *Staphylococcus aureus* (MRSA). Intended for use with a direct streaking technique to differentiate MRSA, the test can be performed with common swab samples composed of mixed populations of bacteria, e.g., nasal, perineal, throat, rectal specimens, etc. COLOREX MRSA is intended for use in the identification of colonization with MRSA to aid in the prevention and control of MRSA in healthcare settings. COLOREX MRSA is not intended to diagnose infections by MRSA, guide or monitor treatment for infections, or provide susceptibility results for MRSA. Further confirmatory identification as MRSA, e.g., by biochemical tests such as latex agglutination, *mecA* gene PCR, and/or disc diffusion method for oxacillin and cefoxitin, is required.[1]

Description and Principle

MRSA exhibits resistance to a large panel of antibiotics, including beta-lactam antibiotics. MRSA is one of the leading causes of nosocomial infections. Sources are either endogenous (the patient) or through cross contamination (environmental or person to person contact). Pre-admission and wide-scale screening for MRSA has proved to be an effective method for reducing hospital burden of MRSA-colonized patients while reducing response time and laboratory workload.

Reagents and Appearance

COLOREX MRSA contains agar, peptone nutrients, salts, antimicrobial selective compounds and chromogenic additives. Media appears transparent with an amber hue and has a final pH of 6.9 ± 0.2 at 25°C.

Precautions, Safety and Disposal

For In Vitro Diagnostic Use

Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves.

Once the tray has been inoculated and resealed, re-open only in a biological safety cabinet. Because of the potential for containing infectious materials, the tray must be destroyed by autoclaving at 121°C for 20 minutes.

Storage

Upon receipt, store InTray COLOREX MRSA under refrigeration (2-8°C). Medium can be kept for one day at ambient temperature. Protect media from exposure to light, excessive heat, moisture and freezing. Do not open until ready to use. Do not use if the medium shows signs of deterioration, shrinking, cracking, discoloration or contamination.

Shelf Life

InTray COLOREX MRSA has a 3-month expiration from the date of manufacture.

Procedure

Materials Provided

- InTray COLOREX MRSA

Materials Required but Not Provided

- Sterile inoculating tool (e.g., cotton swab/forceps/scalpel blade)
- Laboratory incubator capable of incubation at 35-37°C

1 Prepare InTray

Allow the InTray to warm to 18-25°C.

Lift the lower right corner of the flexible InTray label until the protective seal is completely visible.

2 Open Seals

Remove the paper-foil seal by pulling the tab.

Discard the seal.

Do not remove or alter the white filter strip over the vent hole.

3 Inoculate Sample

Streak sample onto the agar surface for isolation.

4 Secure InTray

Reseal the InTray label to the plastic tray body. Press all around the perimeter of the InTray to ensure a complete seal.

Immediately label the InTray with sample information and date.

Do not cover the viewing window.

Incubation

Incubate at 35-37°C for 18-24 hours under ambient atmosphere.

Quality Control

This product has been tested and meets the CLSI (formerly NCCLS) Approved Standard for commercially prepared media (M22-A3). At the time of manufacture, quality control testing is performed on each lot of the InTray COLOREX MRSA. The ability of the media to support growth and demonstrate expected biochemical reactions and morphology is verified by lot.

All COLOREX MRSA Agar products are performance verified with the following ATCC® microbe strains. Product performance is also verified periodically throughout the marked shelf life of each lot.

Organism	ATCC	Expected Result
MRSA Strain		
S. aureus	**BAA-1720**	**Rose to pink-mauve with matte halo**
MSSA Strain		
S. aureus	25923	Inhibited
Other Gram (-), (+):		
P. aeruginosa	9027	Inhibited
E. faecalis	29212	Inhibited
E. coli	25922	Inhibited
Yeast		
C. albicans	60193	Inhibited