

InTray™ Mueller Hinton Agars

Including:

- InTray™ Mueller Hinton
- InTray™ Mueller Hinton II
- InTray™ Mueller Hinton with 5% Sheep Blood
- InTray™ Mueller Hinton Chocolate

For in vitro diagnostic use only



BIOMED
DIAGNOSTICS

1-800-964-6466 • White City, OR 97503

INTENDED USE:

Mueller Hinton Agar and Mueller Hinton II Agar are recommended for antimicrobial disc diffusion susceptibility testing of common, rapidly growing bacteria. Mueller Hinton Agar with 5% Sheep Blood is recommended for antimicrobial disc diffusion susceptibility testing of *Streptococcus pneumoniae* with selected agents; i.e., chloramphenicol, erythromycin, ofloxacin, tetracycline and vancomycin. Mueller Hinton Chocolate Agar is for use in qualitative procedures for the isolation and cultivation of fastidious organisms, particularly *Haemophilus* species.

DESCRIPTION AND PRINCIPLE OF USE:

In the antimicrobial disc diffusion susceptibility test, a standardized suspension of the organism is swabbed over the entire surface of the medium. Paper discs impregnated with specified amounts of antibiotic or other antimicrobial agents are then placed on the surface of the medium, the plate is incubated and zones of inhibition around each disc are measured. Unsupplemented Mueller Hinton agar is not adequate for more fastidious organisms such as *S. pneumoniae*. The NCCLS Document M2, *Performance Standards for Antimicrobial Disk Susceptibility Tests*, recommends Mueller Hinton agar supplemented with 5% defibrinated sheep blood. Because growth of fastidious organisms was poor on the basal agars, the use of Mueller Hinton Agar supplemented with 1% hemoglobin and a defined supplement was adopted for testing of *H. influenza* known as Mueller Hinton Chocolate Agar

INOCULATION PROCEDURE:

Pull back the lower right corner adjacent to the clear window of the InTray™ label until the protective seal is completely visible. Remove the seal by pulling the tab (Fig. 1). **Discard** the seal. **DO NOT REMOVE OR ALTER THE WHITE FILTER STRIP OVER THE VENT HOLE!**

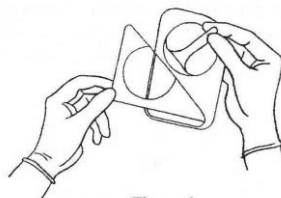


Figure 1

Inoculate the specimen on the surface of the medium. A sterile inoculating loop that has been moistened by touching the surface of the medium may be used for inoculation of solids or scrapings (Fig. 2).

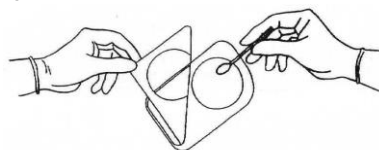


Figure 2

Reseal the InTray™ by pressing together the edges of the label against the plastic tray. **Press all around the InTray™ to insure a complete seal** (Fig. 3). Immediately label the InTray™ with patient or sample information and date. **DO NOT COVER THE VIEWING WINDOW.**

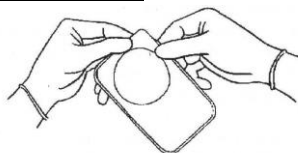


Figure 3

CULTURE AND RESULTS:

For antimicrobial disc diffusion testing, follow standard methods outlined in the NCCLS standard¹

Incubate the InTray™ according to procedures outlined in the testing standards being performed. Generally cultures are incubated at 35±2° C for 18-72 hours in ambient air or in an atmosphere of 5-10% CO₂ for fastidious organisms.

CULTURE RESPONSE: Using the organisms listed below, inoculate plates, add antibiotic disks and incubate as recommended by NCCLS.4 Measure zone diameters and compare to the NCCLS recommended zone ranges¹.

Organism	ATCC™
<i>Enterococcus faecalis</i>	33186
<i>Escherichia coli</i>	25922
<i>Escherichia coli</i>	35218
<i>Pseudomonas aeruginosa</i>	27853
<i>Staphylococcus aureus</i>	25923
<i>Staphylococcus aureus</i>	43300
For MH Chocolate Agar: <i>Haemophilus influenzae</i>	10211

STORAGE:

Upon receipt, store InTray™ Mueller Hinton Agars under refrigeration (2°-8°C). Avoid freezing or prolonged storage at temperatures above 40°C. Do not use InTray™ Mueller Hinton Agars if the medium shows signs of deterioration or contamination. Expiration is 12 months past the date of manufacture.

PRECAUTIONS:

For *in vitro* diagnostic use only. Once the InTray™ has been inoculated and resealed, open only in a biological safety cabinet. Because of the potential for containing infectious materials, the InTray™ must be destroyed by autoclave or other equivalent means of disposal.

SYMBOL KEY			
Symbol	Used For	Symbol	Used For
	Batch code		Temperature limitation
	Date of manufacture		Catalog number
	Use by YYYY-MM-DD or YYYY-MM		Caution, consult accompanying documents
	Manufacturer		Authorized representative in the European Community
	In vitro diagnostic medical device		in European community

REFERENCES:

1. National Committee for Clinical Laboratory Standards. 2000. Approved standard: M2-A7. Performance standards for antimicrobial disk susceptibility tests, 7th ed. NCCLS, Wayne, Pa.

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