

# InTray™ Mannitol Salt Agar



A SELECTIVE CULTURE SYSTEM FOR ISOLATION  
AND ENUMERATION:

## Mannitol Salt Agar

19-1207 (5 pack); 19-1201 (20 pack)

For *In Vitro*, Analytical Use Only

### INTENDED USE:

The InTray™ Mannitol Salt Agar (MSA) test uses a selective isolation media for the enumeration of staphylococci from clinical/non-clinical materials. A change of the phenol red indicator (Mannitol fermentation) aids in differentiating staphylococci species.

### DESCRIPTION:

This device is designed to interface directly with standard methods for bacterial testing of water samples using Membrane Filter (MF) techniques. Mannitol Salt agar is listed as one of several media recommended for the enumeration of gram-positive bacteria in cosmetics, clinical specimens, and pharmaceutical products. Meets U.S. Pharmacopoeia (USP), European Pharmacopoeia (EP) and Japanese Pharmacopoeia (JP) performance specifications, where applicable.

### STORAGE:

Upon receipt, store the InTray™ test under refrigeration (2-8°C). Avoid freezing or prolonged storage at temperatures above 40°C. Do not open until ready to use. Do not use if the medium shows signs of deterioration or contamination.

### PLATING TECHNIQUES:

InTray™ Mannitol Salt Agar is suitable for use with standard Membrane Filtration Technique as stated by the U.S. Environmental Protection Agency. Also, InTray™ Mannitol Salt Agar can be used, via direct plating, with samples from clinical, cosmetic, and pharmaceutical specimens.

### INOCULATION PROCEDURE:

Allow the InTray™ to warm to room temperature before inoculation. 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!**

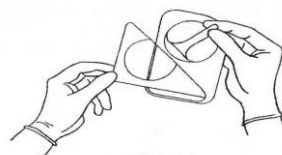


Figure 1

Using sterile technique, remove the filter from the MF apparatus and gently apply it (grid side up) to the surface of the agar in the InTray™ (Fig. 2).

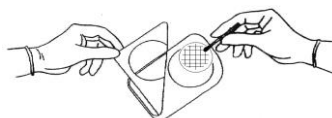


Figure 2

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

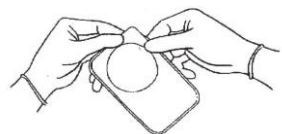


Figure 3

### INCUBATION:

Refer to appropriate standard references for details on testing methods for obtaining isolated colonies from specimens plated on this medium. Incubate the inoculated InTray™ device at an aerobic atmosphere of 35 ± 2°C for 24-48hrs.

### EXPECTED RESULTS:

After the recommended incubation period, the trays should show isolated colonies in streaked areas and confluent growth in areas of heavy inoculation. Growth of yellow colonies with yellow zones indicates coagulase-positive *staphylococci*. Growth of small red colonies with no color change to the medium indicates coagulase-negative *staphylococci*. *Micrococcus* will produce large, white-to-orange colonies with no color change to the medium. The majority of other bacteria will be inhibited.











### CULTURE RESPONSE

Organism	ATCC	Colony Recovery	Colony Appearance
<i>Escherichia coli</i>	8739	No Growth	N/A
<i>Proteus mirabilis</i>	12453	Partial Inhibition	N/A
<i>Staphylococcus aureus</i>	6538	Good	N/A
<i>Staphylococcus aureus</i>	13150, 25923	Good	Yellow
<i>Staphylococcus epidermidis</i>	12228	Good	Red

## REFERENCES:

American Health and Public Association. 1948. Standard Methods for the examination of dairy products, 9<sup>th</sup> ed. American Health and Public Association, New York, N.Y.

U.S. Environmental Protection Agency, 1997. EPA method 1600: Membrane filter test method for enterococci in water. USEPA EPA-821-R-97-004 Washington, D.C.

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



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