PRODUCT INFORMATION

Mannitol Salt Agar

Cat. No. M13-114

DESCRIPTION

Mannitol Salt Agar is a medium used for isolating and differentiating both pathogenic and non-pathogenic Staphylococci. The enzymatic digest of casein and peptic digest of animal tissue provide the basic nitrogen, amino acids, vitamins and minerals to the media while mannitol is the energy source and sodium chloride helps with transport and osmotic balance. Phenol red acts as the pH indicator. On this medium, *Staphylococcus aureus* strains produce large yellow colonies surrounded by yellow zones, while non-pathogenic Staphylococci produce smaller, red colonies.

FORMULA (g/L)

Enzymatic Digest of Casein	5.0 g	Phenol Red	0.025 g
Peptic Digest of Animal Tissue	5.0 g	Sodium Chloride	75.0 g
D-Mannitol	10.0 g	Agar	15.0 g
Beef Extract	1.0 g		

Final pH: 7.4 ± 0.2 at 25 ºC

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 111 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and light pink to light beige.
2. Visually the prepared medium is clear to trace hazy and each to pinkish red in color.
3. Expected cultural response after 18-72 hours at 32.5 ± 2.5 ºC.

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ORGANISM	RESULT
Escherichia coli ATCC 25922	Inhibited
Escherichia coli ATCC 8739	Inhibited
Staphylococcus aureus ATTC 25923	Good Growth – Yellow colonies
Staphylococcus aureus ATTC 6538	Good Growth – Yellow colonies
Staphylococcus epidermis ATTC 12228	Good Growth – Colorless colonies

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.

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