



Mannitol Motility Test Medium. 100 g / 500 g

A semisolid medium used for determining motility and mannitol fermentation.

Product Presentation:

Cat No.	Product description	Pack Size
11130070100	Mannitol Motility Test Medium	100 Gram
11130070500	Mannitol Motility Test Medium	500 Gram

Principle

The highly nutritious peptic digest of animal tissue supports luxuriant growth of fastidious bacteria like Staphylococci. Semisolid nature of the medium due to 0.3% agar helps to detect motility. Motile bacteria produce diffused growth throughout the medium while non-motile bacteria grow only along the line of inoculation. Fermentation of mannitol produces acidity in the medium. Phenol red is the pH indicator, which detects acidity by exhibiting a visible colour change from red to yellow.

Composition

Ingredients

Grams / Litre

Peptic Digest of Animal Tissue	20.0
Mannitol	2.0
Potassium Nitrate	1.0
Phenol Red	0.04
Agar	3.00

Final pH (at 25°C) 7.6±0.2

*Formula adjusted, standardized to suit performance parameters

Specimen Collection and Handling

Ensure that all samples are properly labeled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

- ✓ Suspend 26.04 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely.
- ✓ Dispense in sterile test tubes.
- ✓ Sterilize by autoclaving 121°C for 15 minutes or as per validated cycle.
- ✓ Cool the tubed medium in an upright position.

FACTORY & OFFICE

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Storage and Stability

- ✓ Store Dehydrated culture media in cool, dry place at 10°C-30°C away from direct light.
- ✓ Store prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Quality Control

Dehydrated Appearance: Light yellow to pink coloured, homogenous, free flowing powder.

Prepared Appearance: Pinkish red to red coloured, clear to slightly semisolid opalescent gel, forms in tubes as butts.

Growth Promotion Test: Cultural characteristics is observed after an incubation at 35°C-37°C for 18-48 hours.

Cultural Response :

Organism	Type Culture	Growth	Mannitol Fermentation	Motility
<i>Staphylococcus aureus</i>	ATCC 25923	Good	+	+
<i>Escherichia coli</i>	ATCC 25922	Good	-	+
<i>Proteus mirabilis</i>	ATCC 25933	Good	-	+
<i>Proteus vulgaris</i>	ATCC 13315	Good	+	-
<i>Staphylococcus epidermidis</i>	ATCC 12228	Good	-	-
<i>Klebsiella pneumoniae</i>	ATCC 10031	Good	+	-

Key:

(+) for Mannitol Fermentation - Yellow colour

(-) for Mannitol Fermentation - No colour change

(+) for Motility - Growth away from stabline causing turbidity

(-) for Motility - Growth along the stabline, surrounding medium remains clear **Warranty**

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures. User must ensure safe disposal of used or unusable preparation of the products.

Reference

MacFaddin J. F., 2000, (Ed.), Biochemical Tests for the Identification of Medical Bacteria, 3rd Ed., Williams and Wilkins, New York

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