

PRODUCT INFORMATION

Phenol Red Mannitol Broth

Cat. No. P16-122

DESCRIPTION

Phenol Red Mannitol Broth is used in the differentiation of the bacteria by Mannitol fermentation. The nutrient in this formulation is carbohydrate free casein peptone which prevents false positive reactions. Microorganisms which ferment Mannitol produce acid and change the Phenol Red indicator to yellow. Durham tubes added to the culture medium prior to sterilization will detect gas production.

FORMULA (g/L)

Casein Digest Peptone	7.0 g	Sodium Chloride	5.0 g
Gelatin Peptone	3.0 g	Mannitol	5.0 g
Phenol Red Sodium Salt	0.018 g		

Final pH: 7.3 ± 0.2 at 25 °C

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

PREPARATION

Mix 20 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 118°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and light beige with or without faint pink tint.
2. Visually, the prepared medium is brilliant to clear, orange red to red, with none to light precipitate.
3. Expected cultural response after 18-48 hours at 35±2 °C.

ORGANISM	RESULT
<i>Escherichia coli</i> ATCC 25922	Good Growth, Acid, (+) Gas Production
<i>Proteus vulgaris</i> ATCC 13315	Good Growth, Alkaline, (-) Gas Production
<i>Salmonella typhimurium</i> ATCC 14028	Good Growth. Acid, (+) Gas Production
<i>Staphylococcus aureus</i> ATCC 25923	Good Growth, Acid, (-) Gas Production



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.

Version 01 – Date 10/05/23