



M-PC Broth

M1610

M-PC Broth is used for enumerating microorganisms by membrane filtration.

Composition**	
Ingredients	Gms / Litre
Casein enzymic hydrolysate	10.000
Yeast extract	5.000
Dextrose	2.000
Final pH (at 25°C)	7.0 ± 0.2
**Formula adjusted, standardized to suit performance parameters	

Directions

Suspend 17 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Principle And Interpretation

Bacteria can be removed from liquids by passing them through filters with very small pores that trap bacteria, but in general, not *Mycoplasmas* or viruses (1). The membrane filter technique is highly reproducible, can be used to test relatively large sample volumes, and usually yields numerical results more rapidly. This technique is extremely useful in monitoring drinking water and a variety of natural waters (2).

M-PC Broth used for enumerating microorganisms by membrane filtration has composition similar to Plate Count Agar (M091), except agar. Also M-PC Broth has the media ingredients in double concentrations, than the agar medium (1). This medium can therefore be used as a general purpose non-selective medium to determine total bacterial counts from food and water sample by the membrane filtration procedure.

Casein enzyme hydrolysate provides carbon and nitrogen source. Yeast extract serves as a source of trace elements, vitamin B complex nutrients and essential amino acids. Dextrose serves as the carbon source.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate.

Reaction

Reaction of 1.7% w/v aqueous solution at 25°C. pH : 7.0±0.2

pН

6.80-7.20

Cultural Response

M1610: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
Escherichia coli ATCC 25922	50-100	good
Enterococcus faecalis ATCC 19433	2 50-100	good
Staphylococcus epidermidis ATCC 12228	50-100	good
Staphylococcus aureus ATCC 25923	50-100	good

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Eaton A. D., Clesceri L. S. and Greenberg A. W., (Eds.), 2005, Standard Methods for the Examination of Water and Wastewater, 21st Ed., APHA, Washington, D.C.

2. Collins C. H., Lyne P. M., Grange J. M., 1995, Collins and Lynes Microbiological Methods, 7th Ed., Butterworth Heinemann.

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