



Peizer TB Medium Base

M867

Peizer TB Medium Base is used for cultivation of *Mycobacterium tuberculosis* .

Composition**

Ingredients	Gms / Litre
Casein acid hydrolysate	10.000
Meat extract B#	3.000
L-Asparagine	3.000
Potato starch	15.000
Ferric ammonium citrate	0.100
Magnesium sulphate	0.015
Dipotassium hydrogen phosphate	3.500
Citric acid	0.100
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Equivalent to Beef extract

Directions

Suspend 49.72 grams in 1000 ml distilled water. Heat to boiling to dissolve the media completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to around 55°C and aseptically add egg yolk emulsion (prepared from 10 sterile egg yolks and 25 ml sterile saline, to which 1 ml of sterile 20% dextrose solution and 13 ml of 1% malachite green solution is added) and add 40 ml sterile glycerol. Mix thoroughly and dispense in tubes, then allow it to solidify as slants.

Principle And Interpretation

Peizer TB Medium was formulated by Peizer et al (1) for the cultivation of *Mycobacterium tuberculosis* and also for the diagnosis of tuberculosis. It can also be used for determining the sensitivity of *Mycobacterium tuberculosis* to therapeutic agents (2).

Meat extract B and casein acid hydrolysate are the rich sources of nitrogen and some additional growth factors for the growth of tubercle bacilli (3). Egg yolk emulsion provides fatty acids and proteins required for the metabolism of *Mycobacteria* . L-Asparagine and starch serves as the amino acid and carbohydrate source respectively. Citric acid holds certain inorganic cations in solution. Malachite green inhibits certain contaminating bacteria.

Quality Control

Appearance

Light yellow to light tan homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light green coloured opaque gel forms in tube as slants

Cultural Response

M867: Cultural characteristics observed after an incubation at 35-37°C for 2-4 weeks.

Organism	Growth
<i>Mycobacterium fortuitum</i> ATCC 6841	luxuriant
<i>Mycobacterium kansasii</i> ATCC 12478	luxuriant
<i>M. tuberculosis H37RV</i> ATCC 25618	luxuriant

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. Peizer and Schechter, 1950, Am. J. Clin. Path., 20:682.
2. Peizer, Widelock and Schechter, 1951, Am. J. Clin. Path., 21:982.
3. Dubos and Middlebrook, 1947, Am. Rev. Tuberc., 56:334.

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