



Transport Liquid Medium

M1487

Transport Liquid Medium is recommended for recovery of microorganisms by neutralizing the disinfectants and antiseptics used while taking swab specimens from wounds, burns and other clinical specimens.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	5.000
Dextrose	2.000
Sodium thiosulphate	5.000
Sodium thioglycollate	1.000
Sodium bisulphite	1.000
Polysorbate 80	1.000
Dipotassium phosphate	1.000
Yeast extract	2.500
Final pH (at 25°C)	7.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 18.5 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. Dispense as desired.

Principle And Interpretation

The medium is slight modification of medium developed according to the procedure of Engley and Dey (1) and is recommended for recovery of microorganisms by neutralizing the disinfectants and antiseptics used while taking swab specimen from wounds, burns and other clinical specimens.

Casein enzymic hydrolysate provides nitrogenous compounds while yeast extract, B complex vitamins, dextrose provides the carbon source. The neutralizers in the medium inactivate a variety of disinfectant and antiseptic chemicals. Sodium bisulfite neutralizes aldehydes, sodium thioglycollate mercurials and sodium thiosulphate neutralizes iodine and chlorine, polysorbate 80 neutralizes substituted phenolics (2,3,4,5).

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and clarity of prepared medium

Light yellow coloured clear solution

Reaction

Reaction of 1.85% w/v aqueous solution at 25°C. pH : 7.6±0.2

pH

7.40-7.80

Cultural Response

M1487: Cultural characteristics observed after an incubation at 35 - 37°C for 40-48 hours.

Organism

Growth

Cultural Response

Bacillus subtilis ATCC 6633 good

Escherichia coli ATCC 25922 good

Pseudomonas aeruginosa ATCC 27853 good

Staphylococcus aureus ATCC 25923 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.Engley and Dey 1970. Chem Spec Manuf. Assoc. Proc., Mid Year Meeting., p 100.
- 2.Downes and Ito (ed.) 2001. Compendium for methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington D.C.
- 3.Quisno, Gibby and Foter., 1946 Am J. Pharm 118 : 320.
- 4.Erlandson and Lawrence. 1953 Science 118 : 274.
- 5.Brummer. 1976 Appl Environment. Microbiol 32:80.

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