



Technical Data

DEV Lactose Peptone Broth

M1356

For enrichment and titre determination of coliform bacteria.

Composition**

Ingredients	Gms / Litre
Meat peptone	10.000
Lactose	10.000
Sodium chloride	5.000
Bromo cresol purple	0.010
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 25.01 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.

Principle And Interpretation

DEV Lactose Peptone Broth is used for enrichment and titre determination of coliform bacteria.

Meat peptone provides carbon and other essential nutrients for growth. Sodium chloride is for the osmotic balance Lactose is the carbohydrate source. Bromocresol purple is a pH indicator which has a yellow colour below pH 5.3 and purple colour above pH 6.7. Due to the fermentation of lactose and the subsequent acid production the colour changes to yellow (1).

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Purple coloured clear solution

Reaction

Reaction of 2.5 % w/v aqueous solution at 25°C. pH : 7.0±0.2

pH

6.80-7.20

Cultural Response

M1356: Cultural characteristics observed after an incubation at 37°C for 18-24 hours.

Organism	Growth
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Cultural Response	
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<i>Enterobacter aerogenes</i>	good
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ATCC 13048	
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<i>Escherichia coli</i> ATCC	good
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25922	
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<i>Klebsiella pneumoniae</i>	good
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ATCC 13883	
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Storage and Shelf Life

Store below 30°C in tightly closed container and use freshly prepared medium. Use before expiry date on the label.

Reference

1. MacFaddin J.F., 1985, Media for Isolation - Cultivation - Identification - Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.

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