

Lactose Peptone Broth, DEV



Differential medium used for the cultivation and enumeration of coliforms.

• CONTENTS (Liter)

Peptone	20.0 g
Lactose	10.0 g
Sodium Chloride	5.0 g
Bromocresol Purple	0.02 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 35.02 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Mix well. Dispense in final containers with Durham tubes. If necessary, dispense the medium before autoclave.

• INTERPRETATION

Lactose Peptone Broth, DEV is a differential medium used for the cultivation and enumeration of coliforms. Peptone provides nitrogen, carbon, vitamins and minerals. Lactose is the carbohydrate. Sodium chloride maintains the osmotic balance. Bromocresol purple is the pH indicator.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 36 ± 1°C for 24 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: slightly opalescent.

Color: purple.

Incubation conditions: 36 ± 1 °C / 24 - 48 hours.

Microorganism	ATCC	Inoculum CFU	Growth	Acid	Gas
<i>Escherichia coli</i>	25922	50-100	good	+	+
<i>Salmonella typhimurium</i>	14028	50-100	good	-	-

- **STORE**

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

- **REFERENCES**

1. DEV (1963) Bundesgesetzbl., Teil I: 2613444.

- **PACKAGE**

Cat. No : MB-L2185 Lactose Peptone Broth, DEV	500 G
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