

Purple Broth Base



Medium used for the presumptive identification of gram-negative enteric bacilli based of carbohydrate fermentation.

*Equally use with MFDS (MB-P1392K) and QIA (MB-P1392Q).

• CONTENTS (Liter)

Proteose Peptone	10.0 g
Beef Extract	1.0 g
Sodium Chloride	5.0 g
Bromocresol Purple	0.015 g
Final pH = 6.8 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 16.02 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 tubes. If necessary, dispense the medium before autoclave.

• INTERPRETATION

Purple Broth Base is a medium used for the differentiation and presumptive identification of gram-negative enteric bacilli based on patterns of carbohydrate fermentation. Peptones provide nitrogen, carbon, amino acids and minerals. Sodium chloride maintains 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 35 ± 2 °C for 42 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: fine.

Prepared medium

Appearance: clear with no precipitate.

Color: medium purple.

Incubation conditions: 35 ± 2 °C / 42 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Vibrio parahaemolyticus</i>	17802	50-100	good
<i>Escherichia coli</i>	25922	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. Wurtz. 1897. Technique Bacteriologique, Masson, Paris, France.
2. Forbes, Sahm and Weissfeld. 1998. Bailey & Scott's diagnostic microbiology, 10th ed. Mosby, Inc., St. Louis, Mo.
3. Murray, Baron, Pfaller, Tenover and Tenover (ed.). 1999. Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C..
4. Refer to the MFDS and QIA.

• PACKAGE

Cat. No : MB-P1392 Purple Broth Base	500 G
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• MICROBIAL CULTURE IMAGES



Incubation conditions : 36±1°C 18-48h