

Dextrose Broth



Medium used for the cultivation and identification of a wide variety of microorganisms.

• CONTENTS (Liter)

Pancreatic Digest of Casein	5.0 g
Proteose Peptone No.3	2.0 g
Pancreatic Digest of Gelatin	3.0 g
Beef Extract	3.0 g
Dextrose	5.0 g
Sodium Chloride	5.0 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 23.0 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. Pour into tubes.

• INTERPRETATION

Dextrose Broth is a medium used for the cultivation and identification of a wide variety of microorganisms. Pancreatic digest of casein, proteose peptone no.3, pancreatic digest of gelatin and beef extract provide nitrogen, vitamins and nutrients. Dextrose is a carbohydrate. Sodium chloride maintains the osmotic balance.

• TECHNIC

Inoculate the medium with the specimen using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 48 hours under appropriate condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: clear

Color: light to medium amber

Incubation conditions: 35 ± 2°C / 18 - 48 hours under appropriate condition

Microorganism	ATCC	Growth	Gas
<i>Escherichia coli</i>	25922	good	+
<i>Staphylococcus aureus</i>	25923	good	-
<i>Neisseria meningitidis</i>	13100	good	-
<i>Streptococcus pyogenes</i>	19615	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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Vanderzant, C., and D.F. Splittstoesser (1992). Compendium of methods for microbiological examination, 3rd ed.
2. MacFadding (1985). Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1, p. 802-804.

• PACKAGE

Cat. No : MB-D1161 Dextrose Broth	500 G
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