

EE (Enterobacteriaceae Enrichment) Broth



Medium used for the isolation and cultivation of *Enterobacteria* in the bacteriological examination of foods and pharmaceutical products.

*Equally use with MFDS (MB-E1017K), KP (MB-E1017P), USP and EP.

• CONTENTS (Liter)

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|------------------------------|---------|
| Pancreatic Digest of Gelatin | 10.0 g |
| Glucose | 5.0 g |
| Disodium Phosphate | 8.0 g |
| Monopotassium Phosphate | 2.0 g |
| Oxgall | 20.0 g |
| Brilliant Green | 0.015 g |
| Final pH = 7.2 ± 0.2 at 25°C | |

• PROCEDURE

Suspend 45.02 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Heat at 100°C for 30 minutes. DO NOT AUTOCLAVE. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

• INTERPRETATION

EE (Enterobacteriaceae Enrichment) Broth is a medium used for the isolation and cultivation of *Enterobacteria* in the bacteriological examination of foods and pharmaceutical products. Pancreatic digest of gelatin provides nitrogen, carbon, amino acids and vitamins. Glucose is the carbon sources. Sodium phosphate and potassium phosphate are the buffering agents. Oxgall and brilliant green are the selective agents.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 30 - 35°C for 18 - 24 hours up to 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light green

Prepared medium

Appearance: clear

Color: emerald green

Incubation conditions: 30 - 35°C / 18 - 24 hours up to 48 hours

| Microorganism | ATCC | Inoculum CFU | Growth | Acid production |
|-------------------------------|-------|----------------------------------|-----------|-----------------|
| <i>Escherichia coli</i> | 25922 | 50-100 | good | + |
| <i>Pseudomonas aeruginosa</i> | 27853 | 50-100 | good | - |
| <i>Staphylococcus aureus</i> | 25923 | 10 ² -10 ³ | inhibited | - |

• 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. Association of Official Analytical Chemists. (1995). Bacteriological analytical manual , 8th ed. AOAC International, Gaithersburg, MD.
2. Vanderzant, C., and D.F. Splittstoesser (ed.). (1992). Compendium of methods for the microbiological examination of food, 3rd ed. American Public Health Association, Washington D.C.
3. Refer to the MFDS, KP, USP and EP.

• PACKAGE

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| Cat. No : MB-E1017 EE (Enterobacteriaceae Enrichment) Broth | 500 G |
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