

Lactobacilli Broth, AOAC



Medium used for the preparation of cultures for microbiological assays of vitamins and amino acids.

• CONTENTS (Liter)

Peptone	15.0 g
Yeast Extract	5.0 g
Dextrose	10.0 g
Monopotassium Phosphate	2.0 g
Tween 80	1.0 g
Final pH = 6.8 ± 0.2 at 25°C	

• PROCEDURE

Suspend 33.0 G in 900 mL of distilled or deionized water. Aseptically add 100 mL of Breeze Modified supplement (MB-B3039). Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Pour into tubes.

Breeze Modified supplement

1 bottle contents (each bottle is sufficient for 500 mL of medium)

Tomato Juice Solution 200 mL

• INTERPRETATION

Lactobacilli Broth, AOAC is a medium used for the preparation of cultures for microbiological assays of vitamins and amino acids. Peptone, yeast extract provide nitrogen, carbon, amino acids and vitamins. Dextrose provides the energy source. Monopotassium Phosphate is the buffering agent. Tween 80 provides growth factors for the growth of lactobacilli. Breeze Modified supplement maintains acidic environment in the medium.

• TECHNIC

Inoculate 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: beige

Prepared medium

Appearance: clear to slightly opalescent

Color: amber

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

Microorganism	ATCC	Inoculum CFU	Growth
<i>Lactobacillus bulgaricus</i>	11842	10 ² -10 ³	good
<i>Lactobacillus plantarum</i>	8014	10 ² -10 ³	good
<i>Enterococcus hirae</i>	10541	10 ² -10 ³	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. Horwitz (ed.). 2000. Official methods of analysis of AOAC International, 17th ed., vol. 2. International, Gaithersburg, Md.
2. Loy. 1958. J. Assoc. Off. Agri. Chem. 4:61.
3. Mickle and Breed. 1925. Technical Bulletin 110, N.Y. State Agriculture Ex. Station, Geneva, N.Y.
4. Kulp and White. 1932. Science 76:17.
5. United States Pharmacopeial Convention, Inc. 2001. The United States pharmacopeia 25/The national formulary 20 – 2002. United States Pharmacopeial Convention, Inc., Rockville, Md.

• PACKAGE

Cat. No : MB-L0608 Lactobacilli Broth, AOAC	500 G
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