

Tomato Juice Broth



Medium used for the cultivation and enumeration of *Lactobacillus* spp.

• CONTENTS (Liter)

Yeast Extract	10.0 g
Dextrose	10.0 g
Dipotassium Phosphate	0.5 g
Monopotassium Phosphate	0.5 g
Magnesium Sulfate	0.1 g
Sodium Chloride	0.01 g
Ferrous Sulfate	0.01 g
Manganese Sulfate	0.01 g
Final pH = 6.7 ± 0.2 at 25°C	

• PROCEDURE

Suspend 21.13 G of powder in 600 mL of distilled or deionized water. Add 2 bottles 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

Tomato Juice Broth is a medium used for the cultivation and enumeration of *Lactobacillus* spp. Yeast extract provides trace elements and amino acids. Dextrose is the carbohydrate. Dipotassium phosphate and monopotassium phosphate are the buffering agents. Magnesium sulfate, ferrous sulfate and manganese sulfate provide inorganic ions to the medium. Sodium chloride maintains the osmotic balance.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 72 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: opalescent

Color: amber

Incubation conditions: 35 ± 2°C / 18 - 72 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Lactobacillus delbrueckii subsp. lactis</i>	7830	10 ² -10 ³	good
<i>Lactobacillus bulgaricus</i>	11842	10 ² -10 ³	good
<i>Saccharomyces cerevisiae</i>	76625	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. Mickle and Breed, 1925, Technical Bulletin 110, NY State Agricultural Exp. Station
2. MacFaddin. 1985. Media for isolation-cultivation-identification- maintenance of medical bacteria, vol 1. Williams & Wilkins, Baltimore, Md.
3. Kulp J. W. L. and White V., 1932, Science, 76:17
4. Kulp J. W. L., 1927, Science 66:512.

• PACKAGE

Cat. No : MB-T0678 Tomato Juice Broth	500 G
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