

# Tomato Juice Agar

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

## • CONTENTS (Liter)

SM peptone	10.0 g
Peptonized milk	10.0 g
Agar	11.0 g
Final pH = 6.1 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 31.0 G of powder in 600 mL of distilled or deionized water. Heat to boiling until completely dissolved. Add 2 bottles of Breeze Modified supplement (MB-B3039). Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Dispense in petri dishes.

### **Breeze Modified supplement**

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

Tomato Juice Solution                      200 mL

## • INTERPRETATION

Tomato Juice Agar is a medium used for the cultivation and enumeration of *Lactobacillus* species. Peptone provide nitrogen, carbon, amino acids and minerals. Peptonized milk provides lactose. Agar is solidifying agent.

## • TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 35 ± 2°C for 40-48 hours.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

### Prepared medium

Appearance : slightly opalescent.

Color: amber.

Incubation conditions: 35 ± 2°C / 40-48 hours.

Microorganism	ATCC	Inoculum CFU	Growth
<i>Lactobacillus acidophilus</i>	9224	50-100	good
<i>Lactobacillus delbrueckii</i>	11842	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. 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-T0677 Tomato Juice Agar	500 G
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