

# Snyder Test Agar

Medium used for the estimation of Lactobacilli based on dextrose fermentation.

## • CONTENTS (Liter)

|                                |        |
|--------------------------------|--------|
| Peptic Digest of Animal Tissue | 10.0 g |
| Pancreatic Digest of Casein    | 10.0 g |
| Dextrose                       | 20.0 g |
| Sodium Chloride                | 5.0 g  |
| Bromocresol Green              | 0.02 g |
| Agar                           | 20.0 g |
| Final pH = 4.8 ± 0.2 at 25°C.  |        |

## • PROCEDURE

Suspend 65.02 G of powder in 1L 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. Arrange tubes in a slanted position. If necessary dispense the medium before autoclave.

## • INTERPRETATION

Snyder Test Agar, also known as BCG Dextrose Agar, is a medium used for the estimation of Lactobacilli based on dextrose fermentation. Peptic digest of animal tissue and pancreatic digest of casein provide carbon, nitrogen, vitamins and minerals. Dextrose is a carbohydrate. During Dextrose fermentation, dextrose fermenting bacteria acidify the medium. Because of this, a local pH drops and bromocresol green acts as a pH indicator. In result, dextrose fermenting organisms cultivate with color changing of medium into yellowish-green. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent.

## • TECHNIC

Inoculate the tube to stab the bottom and spreading the specimen on the slant surface using a sterile needle. Incubate at 35 ± 2°C for 24 - 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 : clear to slightly opalescent.

Color: emerald green.

Incubation conditions: 35 ± 2°C / 24 - 72 hours

| Microorganism                    | ATCC  | Growth       | Dextrose fermentation | Characteristics        |
|----------------------------------|-------|--------------|-----------------------|------------------------|
| <i>Lactobacillus delbrueckii</i> | 11842 | good         | +                     | yellowish-green medium |
| <i>Lactobacillus fermentum</i>   | 9338  | good         | +                     | yellowish-green medium |
| <i>Lactobacillus plantarum</i>   | 8014  | good         | +                     | yellowish-green medium |
| <i>Staphylococcus aureus</i>     | 25923 | none to poor | -                     | -                      |

## • 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.

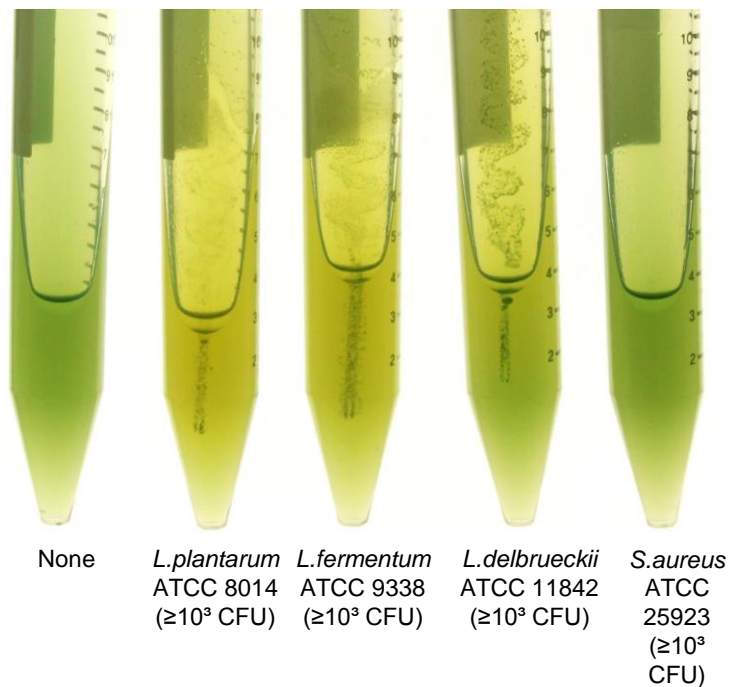
## • REFERENCES

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2. Lewis and Ismail. 1995. Can. Med. Assoc. J. 152:836.
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## • PACKAGE

|  |       |
|--|-------|
| Cat. No : MB-S0684<br>Snyder Test Agar | 500 G |
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## • MICROBIAL CULTURE IMAGES



Incubation conditions : 35 ± 2°C 24 - 72h