

## Product Data Sheet

### **ACETOBACTER AGAR (GLUCOSE)**

**Product No.** GB-DCM-00009-1A

#### **Product Description**

Acetobacter species are aerobic, gram negative organisms. Acetic acid bacteria are found in fruits with high carbohydrate concentration, which is selective for yeasts that produce ethanol. This ethanol forms the substrate for acetic acid bacteria and may oxidize ethanol to acetic acid. Various synthetic and maintenance media for Acetobacter cultures have been cited. A typical maintenance medium is Acetobacter Agar. Acetobacter Agar is formulated as per Manual of Microbiological Methods and used for the maintenance of Acetobacter species utilizing glucose.

#### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Yeast extract	10.000
Calcium carbonate	10.000
Dextrose (Glucose)	3.000
Agar	15.000

#### **PRINCIPLE**

Sodium acetate is utilized as a sole source of carbon by some serotypes of *S.flexneri* such as *Shigella flexneri*. Magnesium sulphate is essential ion. Sodium chloride maintains osmotic equilibrium and phosphates act as buffers.

<b>Microorganism</b>	<b>ATCC</b>	<b>Inoculum (CFU)</b>	<b>Growth</b>	<b>Recovery</b>	<b>Incubation Temperature</b>	<b>Incubation Period</b>
Acetobacter acetii	15973	50-100	Luxuriant	25-30°C	35-37°C	24-48 Hours
Acetobacter liquifaciens	14835	50-100	Luxuriant	25-30°C	35-37°C	24-48 Hours



## **STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

## **Product Deterioration**

Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

## **QUALITY CONTROL SPECIFICATIONS**

Appearance of Powder:	Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium:	Light amber coloured clear solution after cooling to room temperature. PH (at 25°C): 6.9±0.1

## **INSTRUCTION FOR USE**

- Dissolve 38 grams in 1000 ml purified / distilled water. Heat just to boiling.
- Dispense in test tubes, taking care to distribute calcium carbonate evenly. S
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50°C.
- Shake the tubes, cool quickly and place them in a slanted position so as to keep the calcium carbonate in suspension. Note: Due to presence of calcium carbonate, the prepared medium forms opalescent solution with white precipitate.

## **DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**This product is for research use only.**