

# OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

**Regd Office:** Unit no 12, 1st Floor,  
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**Oxford**  
Range of  
Laboratory Chemicals

## TECHNICAL DATA SHEET

### Acetobacter Agar (Glucose)

#### Principle

Acetobacter glucose broth is consist of yeast extract, calcium carbonate and dextrose. Yeast extract in the medium provides nitrogen, vitamins and minerals necessary to support bacterial growth. Dextrose acts as energy source. Calcium carbonate acts as a buffer.

**Use:** For maintenance of dextrose positive Acetobacter species

#### Contents\*

Ingredients	Gram/Liter
Yeast Extract	10.00
Calcium Carbonate	10.00
Dextrose	3.00
pH at 25°C	7.4 ±0.2

\* Formula adjusted for optimum performance and parameters

**Directions:** Dissolve 23.00 grams in 1000 ml distilled. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically

#### Specimens' types analyzed

Fruits, food and food products samples, pure cultures etc.

#### Precautions to be taken

All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

#### Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

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## Quality Control

<b>Appearance</b>	<b>Off white to beige colored free flowing, homogeneous powder</b>
<b>Reaction of 2.3% solution</b>	<b>7.4 ±0.2 at 25 °C</b>
<b>pH</b>	<b>7.20- 7.60</b>
<b>Color and clarity of ready medium</b>	<b>Milky white colored opalescent solution with slight precipitate</b>
<b>Growth Promotion properties</b>	<b>Best at ≤ 100 CFU at 33-37 °C for 24-72 h</b>
<b>Indicative properties</b>	<b>Optimum at ≤ 100 CFU at 33-37 °C for 24-48 h</b>
<b>Negative control</b>	<b>Performed using sterile distilled water</b>

## Different Microbial Response

Cultural characteristics observed after incubation at 35±2 for 24-48 hours. Inoculum 50-100 CFU.

<b>Organism</b>	<b>ATCC</b>	<b>Inoculum (CFU)</b>	<b>Growth</b>
<i>Acetobacter aceti</i>	15973	50-100	Luxuriant
<i>Acetobacter liquefaciens</i>	14835	50-100	Luxuriant

**Storage and Shelf Life:** The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

**Disposal:** To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

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## Reference

1. **Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.**
2. **Manual of Microbiological Methods, (1957), Society of American Bacteriologists, McGraw-Hill Book Company, New York.**
3. **Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), Standard methods for the examination of water and wastewater. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.**

## *Disclaimer:*

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