

## TM 2437 - YEAST EXTRACT CALCIUM CARBONATE GLUCOSE AGAR

### INTENDED USE

For isolation and cultivation of *Erwinia* species.

### PRODUCT SUMMARY AND EXPLANATION

Yeast Extract Calcium Carbonate Glucose Agar is used for the isolation and cultivation of *Erwinia* species, all these species produce excessive acid. A clear zone surrounding each colony results from acid secretion, which liberates the carbonate as Carbon dioxide.

### COMPOSITION

Ingredients	Gms / Ltr
Dextrose	20.000
Calcium carbonate	20.000
Yeast extract	10.000
Agar	15.000

### PRINCIPLE

The medium consists of Dextrose which is the fermentable carbohydrate providing carbon and energy. The high dextrose concentration and acidic pH make this medium selective for fungi. Yeast extract provides necessary nutrients required for growth of organisms.

### INSTRUCTION FOR USE

- Dissolve 65.0 grams in 1000 ml distilled water.
  - Heat just to boiling. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
  - Cool to 45-50°C. Mix well and pour into sterile Petri plates.
- Note: Due to presence of Calcium Carbonate, the prepared medium forms opalescent solution with white precipitate.

### QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Off-white coloured homogeneous free flowing powder.  
**Appearance of prepared medium** : Light yellow coloured opalescent gel with white precipitate.

### INTERPRETATION

Cultural characteristics observe after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Erwinia caratorcore</i>	15713	50-100	Luxuriant	>=70%	25-30°C	48-72 Hours

<i>Erwinia chrysanttemi</i>	11633	50-100	Luxuriant	>=70%	25-30°C	48-72 Hours
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**PACKAGING:**

In pack size of 500 gm bottles.

**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.

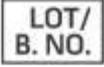
**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

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

**REFERENCES**

1. Jong. S.S, and M.J.Edwars 1991, American Type Culture Collection Catalog of filamentog fungi 18 the. American type Collection, Rockville, MD..

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Cataloge Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

\*For Lab Use Only  
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