

# Corynebacterium Agar

Medium used for the enumeration and cultivation of *Corynebacterium* spp.

## • CONTENTS (Liter)

|                               |        |
|-------------------------------|--------|
| Tryptone                      | 10.0 g |
| Yeast Extract                 | 5.0 g  |
| Glucose                       | 5.0 g  |
| Sodium Chloride               | 5.0 g  |
| Agar                          | 15.0 g |
| Final pH = 7.3 ± 0.2 at 25°C. |        |

## • PROCEDURE

Suspend 40.0 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. Dispense into petri dishes.

## • INTERPRETATION

*Corynebacterium* Agar is a medium used for the enumeration and cultivation of *Corynebacterium* spp. Tryptone is carbon and nitrogen source. Yeast extract and glucose provide vitamin B complex that stimulate bacterial growth. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent.

## • TECHNIC

Inoculate the plates with spreading the specimen on surface of medium using a sterile loop. Incubate at 35 ± 2°C for 18 - 24 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: light amber

Incubation conditions: 35 ± 2°C / 18 - 24 hours

| Microorganism                      | ATCC  | Inoculum CFU | Growth |
|------------------------------------|-------|--------------|--------|
| <i>Corynebacterium diphtheriae</i> | 11913 | 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. Biological Resource Center / KCTC.
2. Alberti, Ortali and Turia. 1965. Ann. 1st. Superiore di Sanita. 1:349.
3. Forbes, Sahm and Weissfeld. 1998. Bailey & Scott's diagnostic microbiology, 10th ed. Mosby, Inc., St. Louis.

**• PACKAGE**

|  |       |
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| Cat. No : MB-C0648<br>Corynebacterium Agar | 500 G |
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