

# Corynebacterium Broth



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
Final pH = 7.3 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 25.0 G of powder in 1 L 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 in tubes.

## • INTERPRETATION

Corynebacterium Broth 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.

## • TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. 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

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

Cat. No : MB-C0649 Corynebacterium Broth	500 G
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