

## CLOSTRIDIUM BROTH

Medium for the cultivation and the enumeration of clostridia and other anaerobes from foods and clinical samples.

### TYPICAL FORMULA (g/l)

Yeast Extract	3.0
Beef Extract	10.0
Peptone	10.0
Glucose	5.0
Sodium Chloride	5.0
Sodium Acetate	3.0
L-Cysteine HCl	0.5
Starch	1.0
Agar	0.5

Final pH = 6.8 ± 0.2 at 25 °C.

### DIRECTIONS

Suspend 38.0 g of powder in 1 liter of distilled or deionized water. Heat to boiling until completely dissolved. Dispense into final screw-capped tubes. Sterilize in the autoclave at 121 °C for 15 minutes.

### DESCRIPTION

CLOSTRIDIUM BROTH is a medium for the cultivation and the enumeration of clostridia and other anaerobes from foodstuffs and clinical samples. Clostridium Broth can be made differential for sulfite reducing clostridia: make separate solutions of 4% sodium sulfite (anhydrous) and 7% ferric citrate in distilled water. Heat the ferric citrate solution to dissolve. Sterilize both solutions by filtration. The solutions may be stored at 4 °C for up to 14 days. On the day of use mix equal volumes of the two solutions and add 0.5 ml to each 25 ml volume of single strength freshly steamed and cooled Clostridium Broth. To each 10 ml and 50 ml of double strength medium add respectively 0.4 ml and 2 ml of the mixed solutions.

### TECHNIQUE

Inoculate the medium with the specimen using a sterile loop and incubate at 36 ± 1 °C for 18-24 hours. All cultures showing blackening must be subcultured for confirmatory tests.

### QUALITY CONTROL

#### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

#### Prepared medium

Appearance: clear.

Color: light amber.

Incubation conditions: 36 ± 1 °C for 18-24 hours, anaerobically.

Microorganism	ATCC	Growth
<i>Clostridium perfringens</i>	13124	good
<i>Clostridium sporogenes</i>	19404	good

### PERFORMANCE AND LIMITATIONS

Further identification tests must be carried out on organisms isolated from this medium.

### STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, 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 tubes at 2-8 °C.



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## REFERENCES

1. Levett (1985) J. Clin. Pathol. 38: 233-234.
2. Gibbs, M.B., and B. Freame. (1965). J. Appl. Microbiol. **28**: 95-143
3. European Pharmacopeia, 3rd ed.2001.
4. ISO 6461/1 (1996) Water Quality-Detection and enumeration of the spores of sulfite reducing anaerobes (clostridia)-Part 1.

## PRESENTATION

Product	REF	$\Sigma$
CLOSTRIDIUM BROTH (13.1 l)	610056	500 g
CLOSTRIDIUM BROTH (2.6 l)	620056	100 g

## TABLE OF SYMBOLS

<b>LOT</b> Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	<b>IVD</b> <i>In Vitro</i> Diagnostic Medical Device
<b>REF</b> Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source



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