

## BRUCELLA BROTH

Dehydrated medium for the cultivation of *Brucella* spp and other fastidious microorganisms

TYPICAL FORMULA	(g/l)
Meat Peptone	10.0
Tryptone	10.0
Sodium Chloride	5.0
Yeast Extract	2.0
Dextrose	1.0
Sodium Bisulfite	0.1
Final pH 7.0 ± 0.2 at 25°C	

### DESCRIPTION

BRUCELLA BROTH is a medium rich in nutrients and growth factors, very suitable for the cultivation of *Brucella* and other fastidious microorganisms like *Campylobacter*, *Streptococcus*, *Neisseria* etc.

### PRINCIPLE

Meat peptone and tryptone provide nitrogen, vitamins, minerals and amino acids essential for microbial growth. Yeast extract is a source of vitamins, particularly of the B-group. Sodium chloride supplies essential electrolytes and keeps the osmotic balance of the medium. Dextrose is the fermentable carbohydrate providing carbon and energy. Sodium bisulfite is a reducing agent added to enhance growth.

### PREPARATION

Suspend 28.1 g of powder in 1 liter of distilled water. Heat until completely dissolved. Dispense into tubes.  
Autoclave at 121°C for 15 minutes.

### TECHNIQUE

For cultivation of *Brucella* inoculate and incubate at 35 ± 2°C in duplicate for 24-72 hours. One tube under normal conditions and the other one under 5-10% CO<sub>2</sub>.

For cultivation of other fastidious microorganisms incubate at the required temperature in an appropriate atmosphere.

### INTERPRETATION OF RESULTS

Observe tubes turbidity comparing with an uninoculated control.

### 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 away from light.

### WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product must be used only by properly trained operators.

### DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

### REFERENCES

1. Isenberg H.D. (1992) Clinical microbiology handbook. American society for microbiology, (ed.), Washington, D.C.
2. Hausler W.J. (1976) Standard methods for the examination of dairy products, 14<sup>th</sup> ed. American Public Health Association, Washington, D.C.



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## PRODUCT SPECIFICATIONS

### NAME

BRUCELLA BROTH

### PRESENTATION

Dehydrated medium

### STORAGE

10-30°C

### PACKAGE

Ref.	Content	Packaging
610356	500 g	500 g of powder in plastic bottle
620356	100 g	100 g of powder in plastic bottle

### pH OF THE MEDIUM

7.0 ± 0.2

### USE

BRUCELLA BROTH is a medium rich in nutrients and growth factors, very suitable for the cultivation of *Brucella* and other fastidious microorganisms like *Campylobacter*, *Streptococcus*, *Neisseria* etc

### TECHNIQUE

Refer to technical sheet of the product

### APPEARANCE OF THE MEDIUM

#### Dehydrated medium

Appearance: free-flowing, homogeneous

Colour: beige

#### Prepared medium

Appearance: slightly opalescent

Colour: clear amber

### SHELF LIFE









4 years

### QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control  
Inoculum for productivity: 10-100 CFU/ml  
Incubation conditions: 24-72 hours at 35 ± 2°C under 5-10% CO<sub>2</sub>

Microorganism	ATCC	Growth
<i>Escherichia coli</i>	25922	Good
<i>Klebsiella pneumoniae</i>	13833	Good
<i>Pseudomonas aeruginosa</i>	27853	Good
<i>Bordetella bronchiseptica</i>	4617	Good

### TABLE OF SYMBOLS

 Batch code	 Keep away from heat sources	 Manufacturer	 Use by
 Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Consult instruction for use



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