



Technical Data

Brucella Broth

LQ180V

Intended Use:

Recommended for enrichment and cultivation of *Brucella* from clinical and non-clinical specimens.

Composition**

Ingredients	g / L
Tryptone	10.000
Peptone	10.000
Yeast extract	2.000
Dextrose (Glucose)	1.000
Sodium chloride	5.000
Sodium bisulphite	0.100
Horse serum	50.000ml
NPBCVN Selective Supplement (FD005).	2Vials

*Ingredients

Concentration

Polymyxin B sulphate	2500IU
Bacitracin	12500IU
Nystatin	50000IU
Cycloheximide	50mg
Nalidixic acid	2.500mg
Vancomycin	10mg
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Label the ready to use LQ180V bottle. Remove the top of the cap. Inoculate 50-100 cfu sample and incubate at specified temperature and time.

Principle And Interpretation

Brucella Broth Base is formulated so as to support luxuriant growth of fastidious bacteria like *Brucella* species (1). *Brucella* is an intracellular parasite that causes epizootic abortions in animals and septicemic febrile illness or localized infections of bone, tissue or organ systems in humans (2,3). *Brucella* species are highly fastidious and therefore require a nutrient rich medium to be able to grow. Also, *Brucella* species are highly infective and so extreme care should be taken while handling. Peptone and tryptone provide nitrogenous and carbonaceous compounds, long chain amino acids, vitamins and other nutrients to the organisms. Yeast extract also supply some nitrogenous nutrients but mainly it serves as a source of Vitamin B complex. Dextrose (Glucose) serves as an energy source. It is suggested that half the tubes to be incubated in the normal atmosphere, and half in a 10% CO₂ enriched atmosphere. *Brucella* species are highly infectious and so extreme care should be taken while handling.

Type of specimen

Clinical samples: body fluids

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (4,5).

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic use only. For professional use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. All presumptive anaerobic organisms must be identified by confirmatory test.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

Sterile clear Brucella Broth in glass bottle.

Colour

Light amber coloured clear solution.

Quantity of Medium

5 ml of medium in glass bottle.

pH

6.80-7.20

Cultural Response

Cultural characteristics observed under 10% Carbon dioxide (CO₂) after an incubation at 35-37°C for 24-72 hours.

Organism	Inoculum (CFU)	Growth
<i>Brucella melitensis</i> ATCC 4309	50-100	luxuriant
<i>Brucella suis</i> ATCC 4314	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922 (00013*)	$\geq 10^4$	inhibited
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	$\geq 10^4$	inhibited

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life

Store between 2-8°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (4,5).

Reference

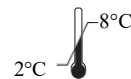
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2. Moyer N. P., and Holcomb L. A., Laboratory Diagnosis and Infectious Diseases: Principles and Practice, Vol. I, Springer- Verlag, New York.
3. Smith L. D., and Fient T. A., 1990, Crit. Rev. Microbiol., 17 : 209-230.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
5. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.



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