

BRUCELLA BROTH (ALBIMI)

Dehydrated culture medium

1 - INTENDED USE

General purpose medium for the cultivation of fastidious and non-fastidious microorganisms.

2 - COMPOSITION - TYPICAL FORMULA*

(AFTER RECONSTITUTION WITH 1 L OF WATER)

Tryptone	10.0 g
Peptone	10.0 g
Yeast extract	2.0 g
Glucose	1.0 g
Sodium chloride	5.0 g
Sodium bisulphite	0.1 g

*The formula may be adjusted and/or supplemented to meet the required performances criteria.

3 - PRINCIPLE OF THE METHOD AND EXPLANATION OF THE PROCEDURE

Brucella Broth (Albimi) is prepared according to the formulation given by APHA for Albimi broth.^{1,2} It may be used as general purpose medium capable of supporting the growth of a wide variety of microorganisms, including the more nutritionally fastidious species.²

This medium is recommended for the cultivation of *Brucella* species and was recommended for use as the liquid medium component of biphasic blood culture bottles and as a medium base for the enrichment of *Campylobacter*.²

Brucella Broth (Albimi) contains tryptone, peptone and yeast extract which are sources of nitrogen, carbon, vitamins and minerals for microbial growth. Sodium chloride maintains the osmotic equilibrium, sodium bisulfite is a reducing agent and glucose is a source of carbon and energy.

4- DIRECTIONS FOR MEDIUM PREPARATION

Suspend 28.1 g in 1000 mL of cold purified water. Heat to dissolve with frequent agitation. Distribute into tubes or bottles and sterilize by autoclaving at 121°C for 15 minutes.

5 - PHYSICAL CHARACTERISTICS

Dehydrated medium appearance	whitish, fine, homogeneous, free-flowing powder
Solution and prepared tubes appearance	yellow, limpid
Final pH at 20-25 °C	7.0 ± 0.2

6 - MATERIALS PROVIDED - PACKAGING

Product	Type	REF	Pack
Brucella Broth (Albimi)	Dehydrated medium	4012742	500 g (17.8 L)

7 - MATERIALS REQUIRED BUT NOT PROVIDED

Autoclave, water-bath, sterile loops and swabs, incubator and laboratory equipment as required, test tubes, Erlenmeyer flasks, ancillary culture media and reagents.

8 - SPECIMENS

This culture medium is not intended for direct use with samples, except as a 'back-up' enrichment medium in addition to the primary culture medium. For detailed information on sample collection and handling procedures, consult appropriate texts.³

9 - TEST PROCEDURE

For *Brucella* cultivation, specimens may be inoculated into the broth after the inoculation of plated media.

Incubate tubes for up to 7 days at 35 -37°C in an aerobic atmosphere supplemented with carbon dioxide.

For the cultivation of other fastidious organisms incubate at the temperature and for the time required by laboratory procedures.

10 - READING AND INTERPRETATION

After incubation observe the presence of growth (turbidity of the medium).

11 - USER QUALITY CONTROL

All manufactured lots of the product are released for sale after the Quality Control has been performed to check the compliance with the specifications. However, the end user can perform its own Quality Control in accordance with the local applicable regulations, in compliance with accreditation requirements and the experience of the Laboratory. The choice of control strains depends on the intended use of the medium.

12 - LIMITATIONS OF THE METHOD

- The nutritional requirements of microorganisms can be different, it is therefore possible that some microbial strains do not grow or grow scantily.
- Sub-cultures onto suitable solid media are necessary for purification of the culture and to perform identification tests.
- The preparation of selective diagnostic media with the addition of specific compounds must be validated by the user.

13 - PRECAUTIONS AND WARNINGS

- This product is for microbiological control and for professional use only; it is to be used by adequately trained and qualified laboratory personnel, observing approved biohazard precautions and aseptic techniques.
- Dehydrated media must be handled with suitable protection. Before use, consult the Safety Data Sheet.





- This culture medium contains raw materials of animal origin. The *ante* and *post mortem* controls of the animals and those during the production and distribution cycle of the raw materials, cannot completely guarantee that this product doesn't contain any transmissible pathogen. Therefore, it is recommended that the culture medium be treated as potentially infectious, and handled observing the usual specific precautions: do not ingest, inhale, or allow to come into contact with skin, eyes, mucous membranes. Download the TSE Statement from the website www.biolifeitaliana.it, describing the measures implemented by Biolife Italiana for the risk reduction linked to infectious animal diseases.
- Apply Good Manufacturing Practice in the production process of prepared media.
- All laboratory specimens should be considered infectious.
- The laboratory area must be controlled to avoid contaminants such as culture medium or microbial agents.
- Sterilize all biohazard waste before disposal. Dispose the unused medium and the sterilized medium inoculated with samples or microbial strains in accordance with current local legislation.
- Do not use the culture medium as active ingredient for pharmaceutical preparations or as production material intended for human and animal consumption
- The Certificates of Analysis and the Safety Data Sheet of the product are available on the website www.biolifeitaliana.it.
- The information provided in this document has been defined to the best of our knowledge and ability and represents a guideline for the proper use of the product but without obligation or liability. In all cases existing local laws, regulations and standard procedures must be observed for the examination of samples collected from human and animal organic districts, for environmental samples and for products intended for human or animal consumption. Our information does not relieve our customers from their responsibility for checking the suitability of our product for the intended purpose.

14 - STORAGE CONDITIONS AND SHELF LIFE










Upon receipt, store at +10°C /+30°C away from direct light in a dry place. If properly stored, it may be used up to the expiration date. Do not use beyond this date. Avoid opening the bottle in humid places. After use, the container must be tightly closed. Discard the product if the container and/or the cap are damaged, or if the container is not well closed, or in case of evident deterioration of the powder (colour changes, hardening, large lumps).

The user is responsible for the manufacturing and quality control processes of prepared media and for the validation of the shelf life of the finished products, according to the type (tubes/bottles) and the storage method (temperature and packaging).

15 - REFERENCES

1. Hausler WJ (ed). Standards Methods for the Examination of Dairy Products. 14th ed. Washington DC, American Public Health Association; 1976.
2. MacFaddin JF. Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria. Baltimore: Williams & Wilkins; 1985.
3. Araj GE. Brucella. In Carrol KC, Pfaller MA et al. editors. Manual of clinical microbiology, 12th ed. Washington, DC: American Society for Microbiology; 2019.

TABLE OF APPLICABLE SYMBOLS

 REF or REF Catalogue number	 LOT Batch code	 Manufacturer	 Store in a dry place	 Use by
 Temperature limitation	 Contents sufficient for <n> tests	 Consult Instructions for Use	 Keep away from direct light	

REVISION HISTORY

Version	Description of changes	Date
Revision 2	Updated layout and content	2022/05

Note: minor typographical, grammatical, and formatting changes are not included in the revision history.

