

BD BBL™ Bovine Albumin, (Fraction V) 0.2% in 0.85% Saline

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INTENDED USE

BD BBL Bovine Albumin (Fraction V) 0.2% in 0.85% Saline, 10mL, is supplied in liquid form for use in specimen digestion procedures for the isolation of *Mycobacterium* species.¹ Bovine albumin is also known as bovine serum albumin or BSA.

SUMMARY AND EXPLANATION

Davis and Dubos² recommended the use of bovine albumin at a final concentration of 0.5% in liquid media for culturing *Mycobacterium tuberculosis*. In this study, bovine albumin neutralized the toxicity of fatty acids and permitted more luxuriant growth of *M. tuberculosis*.

PRINCIPLES OF THE PROCEDURE

Bovine Albumin 0.2% is a filtered solution of Bovine Albumin Fraction V. It has a buffering capacity and detoxifying effect on specimen sediment.³

REAGENTS

BD BBL Bovine Albumin (Fraction V) 0.2% in 0.85% Saline

Warnings and Precautions:

For *in vitro* Diagnostic Use.

Tubes with tight caps should be opened carefully to avoid injury due to breakage of glass.

Pathogenic organisms, including hepatitis viruses and Human Immunodeficiency Virus, may be present in clinical specimens. "Standard Precautions"⁴⁻⁷ and institutional guidelines should be followed in handling all items contaminated with blood and other body fluids. Prior to discarding, sterilize specimen containers and other contaminated materials by autoclaving.

Biosafety Level 2 practices and procedures, containment equipment and facilities are required for non-aerosol-producing manipulations of clinical specimens such as preparation of acid-fast smears. All aerosol-generating activities must be conducted in a Class I or II biological safety cabinet. Biosafety Level 3 practices, containment equipment and facilities are required for laboratory activities in the propagation and manipulation of cultures of *M. tuberculosis* and *M. bovis*. Animal studies also require special procedures.⁸

Storage Instructions: On receipt, store at 2 to 8 °C in the dark. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Allow the medium to warm to room temperature before use.

Product Deterioration: Do not use if product shows evidence of microbial contamination, evaporation, or other signs of deterioration.

SPECIMEN COLLECTION AND HANDLING

Specimens suitable for culture may be handled using various techniques. For detailed information, consult appropriate texts.^{8,9} Specimens should be obtained before antimicrobial agents have been administered. Provision must be made for prompt delivery to the laboratory.

PROCEDURE

Material Provided: **BD BBL Bovine Albumin (Fraction V) 0.2% in 0.85% Saline**

Materials Required But Not Provided: Ancillary culture media, reagents, quality control organisms and laboratory equipment as required for this procedure.

Test Procedure: Observe aseptic techniques.

Sterile Specimens for the Isolation of Mycobacteria³

Normally sterile tissues may be ground in 0.2% BSA and inoculated directly in culture media. Concentrate body fluids before inoculation because they normally contain only a small number of mycobacteria. Centrifuge fluids at $\geq 3,000 \times g$ and inoculate the sediment into liquid or solid media. For a complete discussion of the inoculation of sterile specimens, refer to appropriate references.

Contaminated Specimens for the Isolation of Mycobacteria³

A concentration of 0.2% BSA can be added to specimen sediment that has been digested and centrifuged by the NALC-NaOH digestion method or by using the **BBL™ MycoPrep™** Mycobacterial Specimen Digestion/Decontamination Kit. Using a separate sterile pipette for each tube, add 1-2 mL of 0.2% BSA, then resuspend the sediment with the pipette or by shaking the tube gently by hand.

Several digestion procedures exist. Consult appropriate references for a complete discussion on all digestion and decontamination methods and other testing procedures.^{8,9}

User Quality Control:

Examine tubes for microbial contamination, evaporation, or other signs of deterioration. Quality control requirements must be performed in accordance with applicable local, state and/or federal regulations or accreditation requirements and your laboratory's standard Quality Control procedures. It is recommended that the user refer to pertinent CLSI guidance and CLIA regulations for appropriate Quality Control practices.

RESULTS

Following decontamination and concentration by centrifugation, the sedimented specimen is resuspended in 1 to 2 mL of sterile 0.2% bovine albumin fraction V. This suspension is then used to inoculate media and prepare microscopic smears.⁸

LIMITATION OF THE PROCEDURE

Bovine Albumin is not recommended for use with the **BACTEC™** Blood Culture System because BSA may delay detection times.³

PERFORMANCE CHARACTERISTICS

Prior to release, all lots of **BD BBL Bovine Albumin (Fraction V) 0.2% in 0.85% Saline** are tested for specific performance characteristics. Samples are tested for microbial load using the membrane filtration method. Samples of the lot are aseptically poured over a 0.45 μ m membrane. The membrane is then cut in half; one half is placed in containers containing **Trypticase™** Soy Broth and incubated at 20 to 25 °C and the other half of the membrane filter is placed in containers of Fluid Thioglycollate Medium and incubated at 30 to 35 °C. Containers are examined for growth after 2, 4 and 7 days incubation. No growth occurs in any of the containers after 7 days incubation.

AVAILABILITY

Cat. No. Description


211968 **BD BBL™ Bovine Albumin (Fraction V) 0.2% in 0.85% Saline**

REFERENCES


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9. Forbes, B.A., D.F. Sahn, and A.S. Weissfeld. 1998. Bailey & Scott's diagnostic microbiology, 10th ed. Mosby, Inc., St. Louis.


Technical Information: In the United States, contact BD Technical Service and Support at 800-638-8663 or www.bd.com/ds.


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AAAA-KK-PP / AAAA-KK (KK = kuu lõpp)
AAAA-MM-JJ / AAAA-MM (MM = fin du mois)
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