

Product Data Sheet

BILE BROTH BASE

Product No. GB-DCM-00085-1A

INTENDED USE

For cultivation of Enterobacteriaceae group.

PRODUCT SUMMARY

Enterobacteriaceae inhabit a wide variety of niches that include the human gastrointestinal tract and various environmental niches. When blood samples from a patient with suspected enteric fever is submitted for the widal test, it is useful as a routine to culture the clot after separation of serum. If it is known that the blood has been withdrawn with strict aseptic precautions, the clot may be placed in a wide tube half-filled with broth, or in a wide mouth screw capped bottle containing 80 ml of broth. When there is any doubt regarding the presence of contaminating organisms, and this is always a possibility when blood specimens are sent to the laboratory from a distance, the clot should be transferred directly to a tube of sterile ox bile and disintegrated with aseptic precautions. After overnight incubation the bile culture is examined for enteric organism in the usual manner. A method of clot culture with Streptokinase has been recommended. Blood is allowed to clot in 5 ml quantities in sterile screw-capped universal containers. The separated serum is removed and 15 ml of 0.5% Bile Broth Base with Streptokinase 100 units/ml is added to each bottle. The streptokinase causes rapid clot lysis with release of bacteria trapped in the clot.

Product Specifications

Ingredients	Gms / Ltr
Peptone	20.000
Sodium taurocholate	5.000
Sodium chloride	5.000

INSTRUCTION FOR USE

- Dissolve 30.0 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C and add 1 ml of Streptokinase solution (100000 units/ml).
- Mix well and dispense into sterile tubes or flasks as desired.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

PRINCIPLE

Peptone serves as a source of nitrogen, carbon, long chain amino acids and other essential amino acids. Sodium taurocholate inhibits majority of Gram-positive species. Sodium chloride maintains the isotonicity of the medium whereas addition of streptokinase solution causes rapid clot lysis with release of bacteria trapped in the clot.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Luxuriant	35-37°C	18-48 Hours
Candida krusei	24408	50-100	Luxuriant	35-37°C	18-48 Hours
Staphylococcus aureus subsp. aureus	25923	50-100	Luxuriant	35-37°C	18-48 Hours
Salmonella Typhi	6539	>=104	Luxuriant	35-37°C	18-48 Hours

QUALITY CONTROL SPECIFICATIONS

Appearance of Dehydrated powder: Cream to yellow, homogeneous free flowing powder

Appearance of Prepared medium: Yellow coloured, clear to slightly opalescent gel forms in Petri plates.

pH (at 25°C) : 6.8 ± 0.2

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight. Under optimal conditions, the medium has a shelf Life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

PRINCIPLE

In Nickerson Medium, Bismuth ammonium citrate and sodium sulphite together act as selective agents for Candida species which suppress the bacterial growth, at the same time indicating substrate reduction to yield bismuth sulphite which helps to presumptively identify Candida species. Yeast extract, dextrose and glycine serve as nutrients.

Product Deterioration: Do not use, if powder show evidence of microbial contamination, discoloration, drying, or other signs of deterioration.

This product is for research use only.