



## **Product Data Sheet**

### **LIVER INFUSION BROTH**

**Product No.** GB-DCM-00346-1A

### **INTENDED USE**

For cultivation of Brucella and other anaerobic bacteria.

### **PRODUCT SUMMARY**

Brucella, a gram-negative intracellular parasite causes epizootic abortions in animals and septicemic febrile illness or localized infection of bone, tissue or organ systems in humans. Brucella species are the causative agents of Brucellosis, a zoonotic disease with a domestic animal reservoir. Tryptose Agar with 5% serum remains the media of choice for isolation of Brucella species. However, the growth is highly enhanced when grown on Liver infusion media. Half strength Liver Infusion Broth can be used for the isolation of Entamoeba histolytica.

### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Beef liver, infusion from	500.000
Proteose peptone	10.000
Sodium chloride	5.000

### **PRINCIPLE**

This medium contains Beef liver, infusion from and proteose peptone which provide the nitrogen, amino acids, vitamins and carbon sources which permit luxuriant growth of Brucella and other fastidious pathogens. Sodium chloride maintains the osmotic balance. The reducing substances present in Beef Liver infusion create an anaerobic environment, which satisfies the requirements of even fastidious anaerobes. Brucella species are highly infectious and extreme care should be taken while handling the cultures.

### **INSTRUCTION FOR USE**

- Dissolve 35.0 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense into sterile tubes or flasks as desired and Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Light yellow to brownish yellow homogeneous free flowing powder.

Appearance of prepared : Amber coloured clear solution in tubes.

pH (at 25°C) : 6.9± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Brucella melitensis	4309	50-100	Luxuriant	35-37°C	18-24 Hours
Brucella suis	4314	50-100	Luxuriant	35-37°C	18-24 Hours
Streptococcus mitis	9811	50-100	Luxuriant	35-37°C	18-24 Hours
Clostridium sporogenes	11437	50-100	Luxuriant	35-37°C	18-24 Hours

### STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°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.

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

### DISPOSAL

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

**This product is for research use only.**