

Product Data Sheet

BLOOD FREE CAMPYLOBACTER BROTH BASE

Product No. GB-DCM-00096-1A

INTENDED USE

For selective isolation of Campylobacter species.

PRODUCT SUMMARY

Campylobacter's are carried in the intestinal tract of animal and therefore contaminate foods of animal origin. Campylobacter causes intestinal upset or abortion in animals. It is also one of the most important causes of human gastroenteritis, particularly in children. Initially blood was used in the isolation of Campylobacter. But, later it was reported by Bolton et al that charcoal could be effectively used in place of blood. This rules out the variability obtained due to the use of blood. Blood Free Campylobacter Broth Base is used for selective isolation of Campylobacter species. Campylobacter species are highly resistant to cefoperazone, an antibiotic which effectively suppresses growth of Pseudomonas and Enterobacteriaceae. Addition of cefoperazone increases the selectivity of the medium. Due to this addition, the medium is also known as Campylobacter Charcoal Differential Agar (CCDA). Charcoal, sodium pyruvate and ferrous sulphate reduce the aero tolerance of medium by quenching photo chemically generated toxic oxygen derivatives.

Product Specifications

| Ingredients | Gms / Ltr |
|---------------------------|------------------|
| Peptone | 10.000 |
| Beef extract | 10.000 |
| Tryptone | 3.000 |
| Sodium chloride | 5.000 |
| Sodium deoxycholate | 1.000 |
| Ferrous sulphate | 0.250 |
| Sodium pyruvate | 0.250 |
| Charcoal, bacteriological | 4.000 |



GOSLAR BIOTECH
Your Partner in Sera

PRINCIPLE

Peptone, tryptone and beef extract serve as sources of essential nutrients and amino acids. Casein is added to help grow certain strains of Nalidixic acid resistant Thermophilic Campylobacter from environmental samples. Amphotericin B suppresses the growth of yeast and mold contaminants.

INSTRUCTION FOR USE

Dissolve 16.75 grams in 500 ml purified/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 aseptically add rehydrated contents of 1 vial of CCDA Selective Supplement.
- Mix well and dispense into sterile tubes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Grey to black homogeneous free flowing powder.
Appearance of prepared medium: Black coloured opaque solution in tubes.
pH (at 25°C) : 7.4±0.2

| Microorganism | ATCC | Inoculum (CFU/ml) | Growth | Incubation Temperature | Incubation Period |
|-----------------------|-------|-------------------|----------------|------------------------|-------------------|
| Campylobacter coli | 33559 | 50-100 | Good-luxuriant | 30°C | 72 Hours |
| Campylobacter jejuni | 29428 | 50-100 | Good-luxuriant | 30°C | 72 Hours |
| Campylobacter laridis | 35222 | 50-100 | Good-luxuriant | 30°C | 72 Hours |
| Escherichia coli | 25922 | >=104 | Inhibited | 30°C | 72 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.

Goslar Biotech, 255A Barking Road East Ham, London E6 1LB, United Kingdom
Email: info@goslarbiotech.com, Website: www.goslarbiotech.com