



Product Data Sheet

CAMPYLOBACTER AGAR BASE

Product No. GB-DCM-00153-1A

INTENDED USE

For selective isolation of Campylobacter species from faecal, food and environmental samples.

Product Description

Campylobacter species are ubiquitous in the environment inhabiting a wide variety of ecological niches. Infection with a Campylobacter species is one of the most common causes of human bacterial gastroenteritis. Most species are found in animals (cattle, swine) and cause infertility and abortion. *C. jejuni* was originally isolated on a blood-containing media with antibiotics. Skirrow described a selective medium for Campylobacter species consisting of Blood Agar Base No. 2 supplemented with horse blood and antibiotics. Subsequently, Blaser et al isolated *C.jejuni* on Brucella Agar supplemented with sheep blood and four antibiotics. Later on, a fifth antibiotic, Cephalothin was added to improve the selectivity of the medium by inhibition of accompanying faecal bacteria. Campylobacter Agar Base is recommended by APHA for selective isolation of Campylobacter species. Campylobacter Agar Base is well supplemented to support luxuriant growth of Campylobacter species. Osmotic equilibrium of the medium is maintained by sodium chloride. Blood serves as an additional source of nutrients including X-factor. The antibiotic supplements namely Blaser-Wang and Skirrow markedly reduce the growth of normal enteric bacteria while enhancing the growth and recovery of *C.jejuni* from faecal specimens. Amphotericin B in Blaser- Wang supplement greatly or completely inhibits growth of fungi. *C.jejuni* colonies appear non-haemolytic, flat and gray with an irregular edge or raised and round with a mucoid appearance. Some strains may appear tan or slightly pink. Swarming may be observed on moist surfaces. Incubation at 35-37°C may show a delayed growth of *C.jejuni* cultures. Incubating the plates at 42°C can fasten this. The contaminated food sample (10 to 25 grams) is enriched in Campylobacter Enrichment Broth Base. The broth is incubated with agitation under a micro aerobic atmosphere for 16-18 hrs. The enrichment culture is then plated onto the selective media i.e. Campylobacter Agar Base.

STRUCTION FOR USE

- Dissolve 19.75 grams in 500 ml purified / distilled water.
- Heat to boiling 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 5-7 %v/v sterile lysed horse blood or 10%sterile defibrinated sheep blood and rehydrated contents of 1 vial of Campylobacter Supplement-I (BlaserWang) or Campylobacter Supplement-III (Skirrow).
- Mix well and pour into sterile Petri plates.

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Product Specifications

Ingredients	Gms / Ltr
Proteose peptone	15.000
Liver digest	2.500
Yeast extract	5.000
Sodium chloride	5.000
Agar	20.000

PRINCIPLE

Tryptone provides nitrogenous, carbonaceous nutrients along with vitamins. Phosphates are added to buffer the medium. Sodium chloride maintains the osmotic equilibrium. L-cystine provides amino acids to the media and agar acts as a solidifying agent.

Microorganism	ATC C	Inoculum (CFU)	Growth with Campylobacter supplement I	Recovery with Campylobacter supplement I	Growth with Campylobacter supplement III	Recovery with Campylobacter supplement III	Incubation Temperature	Incubation Period
Candida albicans	10231	50-100	None - poor	0-10%	Good	40-50%	35-37°C	24-48 Hours
Campylobacter jejuni	29428	50-100	Good-luxuriant	>=50%	Good-luxuriant	>=50%	35-37°C	24-48 Hours
Escherichia coli	25922	50-100	None-poor	0-10%	None - poor	0-10%	35-37°C	24-48 Hours
Enterococcus faecalis	29212	50-100	None-poor	0-10%	None - poor	0-10%	35-37°C	24-48 Hours



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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.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder:	Cream to yellow homogeneous free flowing powder
Appearance of prepared medium	Basal medium: Yellow coloured clear gel After addition of 5-7% v/v lysed blood: Reddish brown coloured opaque gel forms in Petri plates.
PH (at 25°C):	7.4±0.2

DISPOSAL

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

This product is for research use only.