

Product Data Sheet

BLOOD FREE CAMPYLOBACTER SELECTIVITY AGAR BASE (ISO 10272-1&2:2017) Product No. GB-DCM-00101-1A

INTENDED USE

For selective isolation and differentiation of Campylobacter species.

PRODUCT SUMMARY

Campylobacters 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 can be effectively used in place of blood. This rules out the variability obtained due to the use of blood. Blood Free Campylobacter Selectivity Agar Base formulated as per APHA and recommended by the ISO Committee is used for selective isolation of Campylobacter species. Cephalothin in the original formulation was replaced by Cefoperazone as the selective agent since the latter gave better selectivity. 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.

Ingredients	Gms / Ltr
Beef extract	10.000
Peptone	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
Agar	12.000

Product Specifications

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PRINCIPLE

Peptone, tryptone and beef extract serve as sources of carbon, nitrogen, amino acids, vitamins and other essential nutrients. Casein is added to help grow certain strains of Naildixic acid resistant Thermophilic Campylobacter that are environmental organisms

INSTRUCTION FOR USE

- Dissolve 22.75 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 rehydrated contents of 1 vial of Campylobacter Supplement V.

• Alternatively, to increase the selectivity of the medium, rehydrated content of one vial of CAT Selective Supplement may be added to 500 ml sterile molten base.

• Mix well and pour into sterile Petri plates.

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.