CM 20370 – CAMPYLOBACTER ENRICHMENT AGAR BASE (PRESTON ENRICHMENT AGAR BASE)

INTENDED USE

For cultivation of Campylobacter species.

PRODUCT SUMMARY AND EXPLANATION

CampylobacterAgarBase(Preston) is basedon the formulation described by Bolton and Robertson, and designed for the isolation of Campylobacter species from human, animal, bird and environmental samples. The supplement is especially selective for Campylobacter jejuni and C. coli. The recovery of injured cells can be improved by preenrichment in broth medium, permitting sublethally injured organisms to repair lesions and to tolerate certain selective antibiotics. Campylobacter spp. are of worldwide significance in human and animal disease, especially C. jejuni, considered one of the main causes of acute bacterial diarrhea in man.

COMPOSITION

Ingredients	Gms / Ltr
Casein peptone	10.000
Beef extract	10.000
Sodium chloride	5.000
Agar	12.000

PRINCIPLE

Casein peptone and Soy peptone provide nitrogen, vitamins, minerals and amino acids essential for growth. Sodium chloride supplies essential electrolytes for transport and osmotic balance. Agar is the solidifying agent.

INSTRUCTIONFOR USE

Dissolve 18.5 grams of themedium in 475mlof distilled water.
Mix well and dissolve by heating with frequent agitation.
Boil for one minute until complete dissolution. Sterilize in autoclave at 121 ºC for 15 minutes.
Cool to 45 ºC and aseptically add 5-7% of lysed horse blood and one vial of Preston Campylobacter Supplement.
Homogenize gently and dispense into Petri dishes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Beige free flowing powder
Appearance of prepared medium	: Yellowish white, cherry red opaque with blood.
pH (at 25°C)	: 7.5±0.2

INTERPRETATION

Culturalcharacteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period

Escherichia coli	25922	50-100	Inhibited	0%	42°C	24-48 Hours
Campylobacter jejuni	29428	50-100	Good	40-50%	42°C	24-48 Hours
Campylobacter coli	43478	50-100	Good	40-50%	42°C	24-48 Hours

PACKAGING:

Inpacksizeof500 gm bottles.

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.

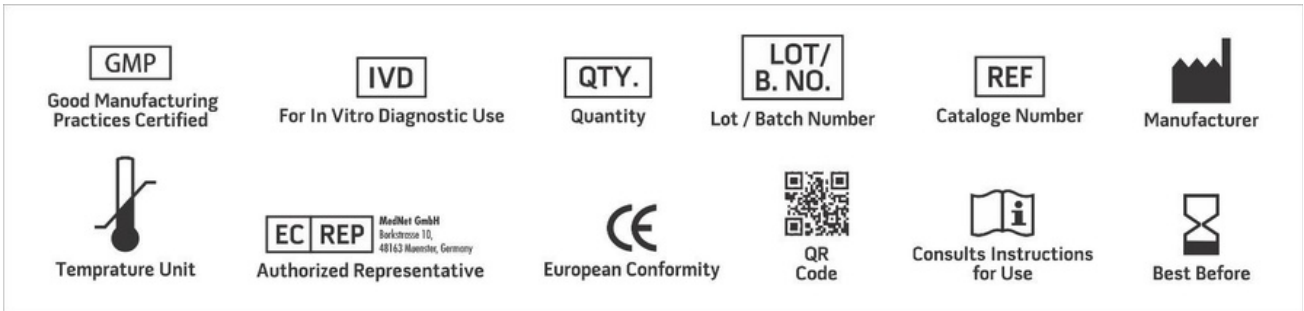
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. Bolton F.J. Hutchinson D.N. y Cioste D. (1984] clin. Microbiol. 19, 169-171.
2. Bolton E.J. Robertson L. (1982] J. Clin Parth 35, 462-467.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For LabUse Only