PRO-LAB DIAGNOSTICS

CAMPYLOBACTER
SELECTIVE SUPPLEMENT PRESTON BLOOD FREE

PRODUCT CODE PL.499/450

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INTENDED USE

Preston blood free selective supplement is intended as an inhibitor of contaminating flora other than *Campylobacters* present in cultures from faecal specimens.

SUMMARY AND EXPLANATION

Since the late 1970's *Campylobacters* have been acknowledged as a common agent involved in numerous cases of Enteritis, with particular emphasis on acute Gastroenteritis in infants.[1] Various methods have been developed to assist microbiologists in selectively isolating *Campylobacters*[2,3].
Two significant reports appeared in 1984. The first by Bolton, Hutchinson and Coates[4] describing an agar medium incorporating Cephalothin as a means of isolating *Campylobacters*. This report was quickly followed by a publication by Bolton and Hutchinson[5] advising that Cefoperazone when used to replace Cephalothin showed a significant improvement in isolation of *Campylobacters*.
In 1987, Bolton[6] reported that by the addition of Amphotericin the selective isolation of *Campylobacters* is yet further improved.

DESCRIPTION

Cefoperazone and Amphotericin in accurate quantities are freeze-dried and provided in individually labelled vials. Each vial being sufficient to supplement 500/1000 ml, final medium.

FORMULA

Each vial contains:	PL.499	PL.450
Cefoperazone	16 mg	32 mg
Amphotericin B	5 mg	10 mg

PROCEDURE

To reconstitute each vial of PRO-LAB Preston Blood Free Supplement PL.499/450, add, aseptically, 3 ml of sterile distilled water. After closing the vial, gently invert a few times to assist reconstitution.
To each 500/1000 ml of medium being prepared, add the reconstituted contents of one vial of PRO-LAB PL. 499/450.
Prepare Preston *Campylobacter* Agar Base according to the manufacturer's instructions. Then, during the proceedings, when cooling after autoclaving, and the medium is at 55° C, add the reconstituted contents of one vial of PRO-LAB Preston Blood Free Product PL.499/450.
After the supplement has been added, gently swirl the medium to evenly disperse the supplement.After mixing, dispense into sterile petri dishes.

IN USE

1. Before using selective medium ensure that plates are dry.
2. Inoculate test material onto surface of agar using a sterile inoculating loop (PL.100) or a sterile swab in such a manner as to encourage the growth of isolated colonies.
3. Incubate plates for 48 hours in a atmosphere of 10% CO_2 and at a temperature of 42° C. Incubation may be carried out at 37° C with a resulting reduction in the rate of recovery.
4. Examine after incubation.
5. *Campylobacter coli* colonies are generally creamy- grey in colour, moist, slightly raised and often discrete. *Campylobacter jejuni* strains are generally grey, moist, flat spreading colonies.

SAFETY PRECAUTIONS

1. PRO-LAB Supplement PL.499/450 is offered only as an in vitro material and is in no way intended for a curative or prophylactic purpose.
2. During and after use, handle all materials in a manner conforming to Good Laboratory Practices and consider at all times that material under test should be regarded as a potential biohazard if mishandled.

PRESENTATION

PRO-LAB *Campylobacter* Supplement Preston Blood Free Formula PL.499/450 is supplied 10 vials per box (lyophilized).

STORAGE

PRO-LAB *Campylobacter* Supplement Preston Blood Free Formula PL.499/450 must be stored at 2°C to 8°C. Kept under these conditions, it may be used up to date of expiry shown on product label.

REFERENCES

1. Bokkenheuser, V.D., Richardson, N.J., Bryner, J.H., Roux, D.J., Schutte, A.B., Koornhof, H.J., Freiman, I. and Hartman, E.J. 1979. Clin. Microbiology 2: 227-232.
2. Skirrow, M.B. 1977. British Medical Journal 2: 9-11.
3. Blaser, M., Craven, J., and Wang, W.L.L. 1978. "Isolation of Campylobacter" (letter) British Medical Journal. July 1978, pp. 57.
4. Bolton, F. J., Hutchinson, D.N. and Coates, D. 1984. J. Clin. Microbiology 19 (2): 169-171.
5. Bolton, F.J. and Hutchinson, D.N. 1984. J. Clin. Pathology, 37 (8): 956-957.
6. Bolton F.J. 1987. Personal Communication (due for publication).

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	= Use by
LOT	= Lot number
REF	= Catalogue number
	= Manufacturer
EC REP	= Authorized Representative in the European Community.
IVD	= in vitro diagnostic medical device.
	= Temperature limitation
	= Consult instructions for use.

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