



Product Data Sheet

FLETCHER LEPTOSPIRA MEDIUM BASE (LEPTOSPIRA MEDIUM BASE, FLETCHER)

Product No. GB-DCM-00329-1A

INTENDED USE

For cultivation and maintenance of Leptospira species.

PRODUCT SUMMARY

The leptospire includes both free-living and parasite forms. Pathogenic species are called Leptospira interrogans. The organisms are too small to be observed in wet preparations made from fresh blood. The most reliable method for laboratory diagnosis of leptospirosis is to cultivate the organism from blood or cerebrospinal fluid during the first week of illness or from urine thereafter for several months. A few drops of heparinized or sodium chloride anticoagulated blood are inoculated into Fletcher's Medium. Fletcher Leptospira Medium Base is prepared according to the formulation of Fletcher and used for isolation of Leptospira from blood, urine and kidney specimens. All cultures are incubated at room temperature in the dark for up to 6 weeks. The organisms grow below the surface of the medium. Material collected from a few centimeters below the surface of broth cultures should be examined weekly for the presence of growth using a direct wet preparation under dark field illumination. Leptospire will exhibit corkscrew like motility.

Product Specifications

Ingredients	Gms / Ltr
Peptone	0.300
Beef extract	0.200
Sodium chloride	0.500
Agar	1.500

PRINCIPLE

The medium consists of peptone and Beef extract, which provide the necessary nutrients required for bacterial growth. Sodium chloride provides essential ions. The enrichment supplement provides carbon, vitamins and energy sources required for Leptospira growth. A low concentration of agar helps in detecting motility.



INSTRUCTION FOR USE

- Dissolve 2.5 grams in 920 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Dispense in tubes and Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C and aseptically add 80 ml sterile Leptospira Enrichment (Horse serum to make final volume to 1 litre).

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder White to yellow homogeneous free flowing powder.

Appearance of prepared : Very light yellow coloured, slightly opalescent gel forms in tubes.

pH (at 25°C) : 7.9± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Leptospira interrogans sero. canicola	23470	50-100	Luxuriant	30-32°C	5 Days
Leptospira interrogans sero. Australis	23605	50-100	Luxuriant	30-32°C	5 Days

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