

# **BD BBL™ Leptospira Enrichment**

8810731JAA  
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## **INTENDED USE**

Leptospira Enrichment is for use in the enrichment of media for the cultivation of *Leptospira* species.

## **SUMMARY AND EXPLANATION**

Media such as Fletcher Medium Base and Stuart Broth Base are used with rabbit serum enrichment for the detection of leptospires in blood, spinal fluid, urine, waters and other minerals.<sup>1-3</sup> They are useful therefore, in diagnostic and epidemiological studies of leptospirosis in humans and animals. Leptospira Enrichment provides the necessary enrichment for these media.

## **PRINCIPLES OF THE PROCEDURE**

Leptospira Enrichment provides long-chain fatty acids as the carbon and energy sources for the growth of *Leptospira*, as well as required vitamins thiamine (B<sub>1</sub>) and cyanocobalamin (B<sub>12</sub>).<sup>4</sup> Leptospires metabolize fatty acids by beta oxidation and the metabolic end products are acetate and carbon dioxide.<sup>4</sup>

## **REAGENT**

Leptospira Enrichment is lyophilized, pooled rabbit serum containing natural hemoglobin.

## **Warnings and Precautions**

For Laboratory Use

This Product Contains Dry Natural Rubber.

Observe aseptic techniques in the restoration and addition of this medium enrichment.

## **Storage and Restoration**

On receipt, store at -20 to +8°C. Restore each vial with 10 mL of sterile purified water; agitate gently until solution is complete. After restoration, use immediately, or store at 2 – 8°C and use within 2 weeks.

Expiration date applies to product in intact container, stored as directed.

Do not open until ready to use.

## **TEST PROCEDURE**

Aseptically add the restored enrichment to autoclaved base medium to provide a final concentration of 8 to 20% serum (enrichment), or as directed.

## **AVAILABILITY**

<b>Cat. No.</b>	<b>Description</b>
211883	<b>BBL™</b> Leptospira Enrichment, Box of 10 vials

## **REFERENCES**

1. Fletcher, W. 1928. Recent work on leptospirosis, tsutsugamushi disease, and tropical typhus in the Federated Malay States. *Trans. Roy. Soc. Trop. Med. Hyg.* 21:265-288.
2. Stuart, R.D. 1946. The preparation and use of a simple culture medium for leptospires. *J. Pathol. Bacteriol.* 58:343-349.
3. Ellinghausen, H.C., Jr. 1959. Nephelometry and a nephelo-culture flask used in measuring growth of leptospires. *Am. J. Vet. Res.* 20:1072-1076.
4. Johnson, R.C., and S. Faine. 1984. Family II. *Leptospiraceae* Hovind-Hougen 1979, 245.<sup>AL</sup>, p. 62-67. *In* N.R. Krieg and J.G. Holt (ed.), *Bergey's manual of systematic bacteriology*, vol. 1. Williams & Wilkins, Baltimore.

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