



Animal and Plant  
Health Inspection  
Service

Veterinary Services

Center for Veterinary  
Biologics

1920 Dayton Avenue  
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Ames, IA 50010

(515) 337-6100

## **Leptospira canicola Monoclonal Antibody (LC MAb - Lot ID IRP 04-500**

**Document Number: CVB-DAT-0080**

**Revision: 03**

**Previous Number: BB DAT0100.06**

**Vault: CVB-Released**

**Section/Area: CVB-DAT**

**Effective Date: 12 Jul 2022**

**Notes: *Strain or Source: Hybridoma LC 4DB-001, Fill date: February 23, 2004***

**United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Center for Veterinary Biologics  
P. O. Box 844  
Ames, IA 50010**

1. **Reagent Name:** *Leptospira canicola* Monoclonal Antibody (LC MAb)
2. **Strain or Source:** Hybridoma LC 4DB-001
3. **Lot Number:** IRP 04-500
4. **Fill Date:** February 23, 2004
5. **Expiration Date:** November 30, 2026

**Precautions:** There are no known hazards associated with the use of this reagent.

6. **Intended Use:** For use in an enzyme-linked immunosorbent assay (ELISA) as described in **Supplemental Assay Method (SAM) 625** for serial release potency testing of leptospiral bacterins containing serogroup *canicola*.
7. **Instructions for Use:** Dilute LC MAb 1:15,000 in phosphate-buffered saline supplemented with 1% polyvinyl alcohol and 0.9% normal rabbit serum, and use immediately, according to **SAM 625**.
8. **Test of Reagent:** LC MAb belongs to the IgM antibody class and contains kappa lightchains. The reagent satisfactorily passed sterility requirements. The optimal use dilution was determined by titration, using the assay described in **SAM 625**.
9. **Container Size, Type, Weight, or Volume:** 150  $\mu$ L aliquots in plastic microcentrifuge tubes.
10. **Storage Conditions:** -20° to -80°C for long-term storage. Vial may be held at 2°- 7°C for two months.
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6100 or FAX (515) 337-7673.
12. **Origin and Passage History:** Not applicable.

**13. Method of Preparation:** The hybridoma cell line was developed by immunizing BALB/c mice with an extract of *L. canicola* challenge strain 11203 and fusing splenocytes with Sp2/O myeloma cells. Ascites fluid was collected from BALB/c mice injected with hybridoma LC4DB, pooled, filtered, and frozen at -20°C or lower.

**14. Other:**

**Restrictions:** This reagent is provided by the CVB to biologics manufacturers only for use in potency testing according to **SAM 625**.

Reagent orders and feedback should be sent *including phone number* to the following email address: [VS.DB.CVB.Reagent.Requests@usda.gov](mailto:VS.DB.CVB.Reagent.Requests@usda.gov)

Reagent orders forms (APHIS Form 2018) can be found on the CVB website.