



Animal and Plant
Health Inspection
Service

Veterinary Services

Center for Veterinary
Biologics

1920 Dayton Avenue
PO Box 844
Ames, IA 50010

(515) 337-6100

Pasteurella multocida (bovine) Challenge Culture - Lot ID IRP 610

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Author: AMWALKER

Section/Area: CVB-DAT

Release Date: 30 Jul 2019

Notes: *Strain or Source: P 1062, Fill date: December 14, 2011*

**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:** *Pasteurella multocida* (bovine) Challenge Culture
2. **Strain or Source:** P 1062
3. **Lot Number:** IRP 610
4. **Fill Date:** December 14, 2011
5. **Expiration Date:** June 30, 2024

Precautions: This is an opportunistic pathogen with low risk of infection to humans. However, it is suggested that this reagent be handled under a safety hood while wearing gloves.

6. **Intended Use:** Challenge material for bovine *P. multocida* testing according to 9 CFR 113.121.
7. **Instructions for Use:** Reconstitute 1 vial with 1 mL of tryptose broth. Inoculate bovine blood agar plates with a loopful of the reconstituted culture and incubate 35°- 37°C for 16-18 hours. Harvest colonies from plates with pure growth, suspend in tryptose broth, and adjust density to 76-80% transmittance at 630 nm using a Spec20 spectrophotometer. The recommended mouse dose is 0.2 mL of a 10⁻⁵ dilution of the standardized culture, administered intraperitoneally.
8. **Test of Reagent:** Gram stain, biochemical characteristics, and pulse-field gel electrophoresis of the culture were consistent with *P. multocida* P-1062. Purity testing was satisfactory according to 9 CFR 113.27b. When following the procedures described in 9 CFR 113.121, the challenge preparation was found to contain approximately 10^{2.93} mouse lethal dose fifty (LD₅₀) per 0.2 mL.
9. **Container Size, Type, Weight or Volume:** 1.0 mL of lyophilized culture in 2-mL serum vials.
10. **Storage Conditions:** 4°C or less
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6165 or FAX (515) 337-7673.
12. **Origin and Passage History:** Origin: Bovine liver isolate. Passage history unknown.

13. Method of Preparation: Cultures were grown on dextrose starch agar plates. Bacterial growth was harvested from the plates with double-strength skim milk, dispensed into 1.0-mL aliquots, and lyophilized.

14. Other:

Restrictions: For use in potency testing of *P. multocida* 1062 according to 9 CFR 113.121.

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

Reagent order forms (APHIS Form 2018) can be found on the Biologics Forms page of the CVB website.