CONTROLLED//PROPIN//BASIC

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 Challenge Culture (bovine)
- 2. Strain or Source: P-1062
- **3.** Lot Number: IRP 690
- **4. Fill Date:** March 7, 2022
- 5. Expiration Date: October 31, 2027

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

6. Intended Use: *P. multocida* challenge material for potency testing of bacterins of bovine origin according to 9 CFR 113.121 using SAM 634.

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 Spectronic 20D+ spectrophotometer or equivalent. The recommended mouse challenge dose is 0.2 mL of a 10^{-5} dilution of the standardized culture, administered intraperitoneally.

8. Test of Reagent: Purity testing was satisfactory according to title 9, *Code of Federal Regulations* (9 CFR), part 113.27b. Colony characteristics, MALDI-TOF analysis, and whole genome sequencing results were consistent with an identity of *P. multocida*. DNA sequence-based serotyping was consistent with *P. multocida* capsular type A and LPS group 3. When following the procedures described in 9 CFR 113.121, the challenge preparation was found to contain approximately 10^{2.85} 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: 7°C or less

11. CVB Technical Contact: Bacteriology Section, Center for Veterinary Biologics, (515) 337-6100.

CVB-DAT-5171.02

12. Origin and Passage History: Bovine liver isolate, passaged at the CVB.

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

14. Other: None.

Restrictions: For potency testing of *Pasteurella multocida* bacterins of bovine origin according to 9 CFR 113.121.

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

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