

**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*, Avian Type 4 Challenge Culture
2. **Strain or Source:** NVSL strain 1662, capsular Type A
3. **Lot Number:** IRP 551-07
4. **Fill Date:** February 7, 2007
5. **Expiration Date:** Not applicable

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

6. **Intended Use:** To be used as challenge material for *P. multocida* potency tests in accordance with **SAM 630** and 9 CFR 113.116.
7. **Instructions for Use:** Reconstitute vial of lyophilized culture with 1 mL of tryptose broth. Streak 2 bovine blood agar plates with 0.1 mL of the reconstituted culture and incubate at 35°- 37°C for 16 to 19 hours. Suspend several colonies from the blood agar plates in 2% tryptose broth and adjust to 73-78%T at 630 nm using a Spectronic 20D+ spectrophotometer, or equivalent. Recommended turkey dose is 0.5 mL of a 10⁻⁵ dilution of adjusted culture, administered intramuscularly.
8. **Test of Reagent:** Purity, biochemical profiles, plate counts, DNA fingerprinting, and serological testing were performed on the reagent prior to, and after, freezing. Potency testing performed on turkeys caused deaths in eight or more unvaccinated controls after 14 days of observation. Meets potency testing requirement as specified in 9 CFR 113.116
9. **Container Size, Type, Weight, or Volume:** 3-mL glass vials containing 1.5 mL lyophilized culture.
10. **Storage Conditions:** 4°C or less
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6140 or FAX (515) 337-7673.

12. Origin and Passage History: Origin: K. Heddleston, ARS, USDA, Ames, Iowa, 1975. Passage History: Passaged through turkeys twice and isolated from liver. Cultures from turkeys were lyophilized and stored -20°C for use as stock culture.

13. Method of Preparation: Cultures were grown on Dextrose Starch agar plates. Bacterial growth was harvested with double-strength skim milk, dispensed into 1.5-mL aliquots, and lyophilized.

14. Other:

Restrictions: For use in as challenge material for potency testing of *P. multocida* avian type 4 biologicals.

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

Reagent orders forms (APHIS 2018) are available from:
https://www.aphis.usda.gov/library/forms/pdf/APHIS_2018.pdf.

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