

**United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Center for Veterinary Biologics  
P. O. Box 844  
Ames, IA50010**

1. **Reagent Name:** *Pasteurella multocida*, 169 (Swine) Challenge Culture
2. **Strain or Source:** NVSL strain 169
3. **Lot Number:** IRP 490
4. **Fill Date:** November 21, 2002
5. **Expiration Date:** Not Applicable.

**Precautions:** This reagent is an opportunistic human pathogen. It is suggested that this reagent be handled under a biological safety hood while wearing gloves.

6. **Intended Use:** Challenge material for mouse potency test for porcine *P. multocida* bacterins according to title 9, *Code of Federal Regulations* (9 CFR), part 113.121.
7. **Instructions for Use:** Reconstitute each vial with 1 mL of tryptose broth. Inoculate bovine blood agar plates with a loopful of the reconstituted culture and incubate at 35°- 37°C for 16-18 hr. Harvest several colonies from plates with pure growth (as determined by stereomicroscopic examination) and suspend in tryptose broth. Adjust culture to 76-80% transmittance at 630 nm using a Spec20 spectrophotometer. The recommended mouse dose is 0.2 mL of a 10<sup>-4</sup> dilution of this standardized culture, administered intraperitoneally.
8. **Test of Reagent:** Gram stain and biochemical evaluation of the culture confirmed purity and identity. Standardized culture (70%± 2%T at 630 nm, Spec70 spectrophotometer) contains approximately 2x10<sup>8</sup> CFU/mL. Challenge inoculum contains approximately 3500 LD<sub>50</sub>.
9. **Container Size, Type, Weight, or Volume:** 3.5-mL glass serum vials contain 1.0 mL of lyophilized culture.
10. **Storage Conditions:** 4°C or less.
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6100.

**12. Origin and Passage History:** Porcine liver isolate, NVSL. Passage history unknown.

**Note:** Although this challenge culture was originally isolated from a porcine liver, it is intended for use in the mouse potency test described in 9 CFR 113.121. No guarantee is made of this culture's suitability as a challenge culture to induce clinical pasteurellosis in swine.

**13. Method of Preparation:** Seed culture was rehydrated with tryptose broth; contents was transferred to fresh tryptose broth and incubated overnight on a rotary shaker. The culture was plated to Dextrose Starch Agar and allowed to grow overnight. Bacterial growth was harvested from the plates by washing with double strength skim milk. The culture suspension was dispensed into vials in 1 mL aliquots and lyophilized.

**14. Other:**

**Restrictions:** For use in potency testing of swine biologicals containing *P. multocida*.

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.