

**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:** *Salmonella dublin* challenge culture
2. **Strain or Source:** APHIS, NVSL #82, *S. dublin*
3. **Lot Number:** IRP SDC Serial #5
4. **Fill Date:** May 1992
5. **Expiration Date:** Not applicable.

Precautions: This may be an opportunistic pathogen. Handle this culture under a biological safety hood while wearing gloves.

6. **Intended Use:** Challenge material for *S. dublin* testing according to 9 CFR 113.123 and **Supplemental Assay Method (SAM) 633**.

7. **Instructions for Use:** Rehydrate the lyophilized culture with 1 mL tryptose broth. Inoculate 10 mL of tryptose broth with 0.1 mL of reconstituted culture and incubate 16-20 hours at 35°- 37°C. Inoculate 200 mL of tryptose broth with 4 mL of overnight culture, and incubate for 4 hours at 35°- 37°C, or until the culture achieves an optical density of 12-18% T at 520 nm using a Spectronic 20D+ spectrophotometer, or equivalent. This bacterial density contains approximately 6.0×10^8 organisms/mL. The mouse dose is 0.25 mL of undiluted challenge administered intraperitoneally.

8. **Test of Reagent:** Cultures were tested for purity and identity throughout production. Post-lyophilization plate count was 8.9×10^8 CFU/mL. When prepared and administered to mice as described above, the material was found to contain $10^{4.14}$ mouse lethal dose fifty (LD₅₀) per 0.25 mL.

9. **Container Size, Type, Weight, or Volume:** 0.5 mL in 2-cc serum vials.

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: APHIS, NVSL #82. Passage history is not available.

13. Method of Preparation: Stock culture was rehydrated and grown on brain heart infusion (BHI) agar. Growth was harvested from the agar with 0.85% sterile saline. The culture was mixed with an equal volume of sucrose mono-potassium glutamate stabilizer and was lyophilized.

14. Other:

Restrictions: This reagent is to be used as challenge material for potency testing of *S. dublin* 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:
http://www.aphis.usda.gov/animalhealth/cvb_forms

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