

**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:** *Erysipelothrix rhusiopathiae* Challenge Culture
2. **Strain or Source:** E1-6P
3. **Lot Number:** IRP ERC Serial #4
4. **Fill Date:** May 1993
5. **Expiration Date:** Not applicable

Precautions: *E. rhusiopathiae* can cause serious wound infections in humans (erysipeloid). This reagent should be handled under a biological safety hood while wearing gloves.

6. **Intended Use:** Challenge material for potency testing of *E. rhusiopathiae* biologicals.
7. **Instructions for Use:** For mouse potency tests, use this reagent according to current version of **Supplemental Assay Method 611 (SAM 611)**. Reconstitute each vial with 1.5 mL of 1% peptone buffer. Use the entire contents of the vial to inoculate 100 mL of Erysipelas broth (a horse meat infusion buffer--formulation available upon request). After 18-24 hr of incubation, adjust the challenge culture to an optical density of 74-78%T at 600 nm using a Spectronic 20D+ spectrophotometer, or equivalent. The mouse challenge dose is 0.2 mL of a 10^{-5} dilution of the standardized culture, administered subcutaneously.

For use as a swine challenge, adjust the 18-24 hr culture to 40-44%T at 600 nm using a Spectronic 20D+ spectrophotometer, or equivalent. The swine challenge dose is 2.0 mL of a 10^{-5} dilution of the standardized culture, administered intramuscularly.

8. **Test of Reagent:** Purity according to title 9, *Code of Federal Regulations* (9 CFR), section 113.27. When prepared and administered to mice as described above, the material was found to contain from $10^{7.1}$ to $10^{8.6}$ mouse lethal dose fifty (LD_{50}) per 0.2 mL (data from 13 tests run between 1993 and 2000).
9. **Container Size, Type, Weight, or Volume:** 2 mL of lyophilized culture in 10-mL 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: Porcine isolate obtained from Dr. Richard Wood, USDA-ARS-NADC, Ames, Iowa. Passage history is not available.

13. Method of Preparation: Stock culture was rehydrated and grown in Erysipelas broth. An equal volume of double-strength skim milk was added as a stabilizer prior to lyophilization.

14. Other:

Restrictions: For use in potency testing of *E. rhusiopathiae* 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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