

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 592
4. **Fill Date:** August 26, 2010
5. **Expiration Date:** July 31, 2030

Precautions: *E. rhusiopathiae* can cause serious wound infections in humans (erysipeloid). This

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). Alternatively, transfer entire contents of the vial into 100ml of Todd Hewitt broth + 10% horse serum. After 18-24 hours 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.
8. **Test of Reagent:** Purity according to 9 CFR 113.27. When prepared and administered to mice as described above, the material was found to contain from $10^{7.2}$ to $10^{8.9}$ mouse lethal dose fifty (LD50) per 0.2 mL.
9. **Container Size, Type, Weight, or Volume:** 2 mL of lyophilized culture in 5-mL serum vials.
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 isolate obtained from Dr. Richard G. 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:** None

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: VS.DB.CVB.Reagent.Requests@usda.gov

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