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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: *Escherichia coli* Anti-F41 Pilus Polyclonal Antibody (F41 PAb)
- 2. Strain or Source: Not applicable
- **3.** Lot Number: IRP 693
- 4. Fill Date: July 15, 2022
- 5. Expiration Date: November 30, 2027

Precautions: There are no known hazards associated with the use of this reagent.

- 6. Intended Use: For use in potency testing of *E. coli* biologicals containing the F41 pilus antigen, according to Supplemental Assay Method (SAM) 623.
- 7. Instructions for Use: Dilute the F41 PAb 1:1,000 in cold carbonate-bicarbonate coating buffer (0.05M, pH 9.6) and use immediately, according to SAM 623.
- 8. Test of Reagent: The F41 PAb was evaluated using enzyme-linked immunosorbent assay. The F41 PAb was shown to be specific for F41 pilus antigen, with negligible reactivity against other pilus types and non-piliated mutants of *E. coli*. It exhibits minimal nonspecific binding (background).
- 9. Container Size, Type, Weight, or Volume: 75µL aliquots in microfuge vials
- **10.** Storage Conditions: -20° to -80°C for long term storage. Vial may be held at 2°- 7°C for several weeks.
- 11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6100.
- 12. Origin and Passage History: *E. coli* F41 NADC culture 1839 (IRP 677)

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13. Method of Preparation: *E. coli* F41 PAb was produced in New Zealand White rabbits. Each rabbit received 5 intravenous doses of *E. coli* F41 NADC culture 1839 (IRP 677) given at 7-day intervals. The first 3 doses contained formalin-killed/partially formalin-killed *E. coli*, and the final 2 doses contained live *E. coli*. Serum was harvested, pooled, and adsorbed one time with non-piliated bacteria (NADC, *E. coli* strain 1839) to remove antibodies not directed against F41 pili. The F41 PAb was filter-sterilized and frozen at -70°C or lower.

14. Other: None

Restrictions: For use only in potency tests conducted according to **SAM 623**.

Reagent orders and feedback should be sent *including phone number* to the following email address: <u>VS.DB.CVB.Reagent.Requests@usda.gov</u>

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