



Animal and Plant
Health Inspection
Service

Veterinary Services

Center for Veterinary
Biologics

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Ames, IA 50010

(515) 337-6100

Escherichia coli Anti-F41 Pilus Monoclonal Antibody (F41 MAb) - Lot ID IRP 04-508

Document Number: CVB-DAT-0062

Revision: 02

Previous Number: BB DAT0078.04

Vault: CVB-Released

Section/Area: CVB-DAT

Effective Date: 12 Jul 2022

Notes: *Strain or Source: Hybridoma SDSU 56/85, Fill date: August 3, 2004*

**United States Department of Agriculture
Animal and Plant Health Inspection Service
National Veterinary Services Laboratories
P. O. Box 844
Ames, IA 50010**

1. **Reagent Name:** *Escherichia coli* Anti-F41 Pilus Monoclonal Antibody (F41 MAb).
2. **Strain or Source:** Hybridoma SDSU 56/85
3. **Lot Number:** IRP 04-508
4. **Fill Date:** August 3, 2004
5. **Expiration Date:** November 30, 2026

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 MAb 1:4,000 in phosphate-buffered saline supplemented with 0.05% Tween 20 and 2% bovine serum albumin fraction V and use immediately, according to **SAM 623**.
8. **Test of Reagent:** The F41 MAb was shown to be specific for F41 pilus antigen. It exhibits minimal nonspecific binding (background) in assays performed according to **SAM 623**. The optimal use dilution was determined by titration, using the assay described in **SAM 623**.
9. **Container Size, Type, Weight, or Volume:** 150- μ L aliquots in 500- μ L microfuge vials
10. **Storage Conditions:** -70°C or less for long term storage. Vials may be held at 2°- 7°C for several weeks.
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6100 or FAX (515) 337-7673.
12. **Origin and Passage History:** The SDSU 56/85 hybridoma cell line secreting anti-F41 antibody was obtained from South Dakota State University, Brookings, South Dakota. The cell line was produced by fusion of splenocytes (obtained from a BALB/c mouse immunized with purified F41 pili) with mouse plasmacytoma cells (NS-1).
13. **Method of Preparation:** The hybridoma cell line was used to prepare ascites fluid in pristane-primed BALB/c mice. Ascites fluid was collected, filter-sterilized, and evaluated for specificity by **SAM 623**. Anti-F41 MAb was divided into aliquots and frozen at -70°C or lower.

14. Other:

Restrictions: For use in potency testing of *E. coli* biologicals according to **SAM 623**.

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.