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-K88 Pilus Monoclonal Antibody (K88 MAb)

2. Strain or Source: Hybridoma 21BA1-1H1

3. Lot Number: IRP 499-05

4. Fill Date: January 2005

5. Expiration Date: 31Mar22

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 K88 antigen, according to **Supplemental Assay Method (SAM) 621**.

7. Instructions for Use: Dilute the K88 MAb 1:11,000 in carbonate-bicarbonate coating buffer 0.05M, pH 9.6) and use immediately, according to **SAM 621**.

8. Test of Reagent: The K88 MAb was shown to be specific for the "a" subunit of the K88 pilus antigen. It exhibits minimal nonspecific binding (background) in assays performed according to **SAM 621**. The optimal use dilution was determined by titration, using the assay described in **SAM 621**.

9. Container Size, Type, Weight, or Volume: 250-µL aliquots in microfuge vials (Lot size: 185 vials).

10. Storage Conditions: -70ºC or lower for long term storage. May be held at 2º- 7ºC for several weeks.

11. CVB Technical Contact: Bacteriology Section, Center for Veterinary Biologics, (515) 337-6140 or FAX (515) 337-7673.

12. Origin and Passage History: Raw ascites fluid was purchased from Molecular Genetics Inc., Minnetonka, Minnesota. Hybridoma 21BA1-1H1, secreting anti-K88 antibody specific for a common "a" epitope of all three K88 antigenic variants, was produced from a fusion of murine spleen cells (immunized with all three K88 pili) with mouse plasmacytoma cells (NS-1) on September 29, 1983, at Molecular Genetics.

13. Method of Preparation: Raw ascites fluid was purchased from Molecular Genetics Inc. The MAb was filter-sterilized, aliquoted, and stored at -70ºC or lower.

14. Other:

Restrictions: To be used only in biological potency testing according to **SAM 621**.

Reagent orders and feedback should be sent *including phone number* to the following email address: VS.STAS.CVB.Reagent.Requests@aphis.usda.gov

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

REVISED: 29Mar18 tlt