

**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 Horseradish Peroxidase (HRP)-Labeled Monoclonal Antibody (K88-HRP Conjugate)
2. **Strain or Source:** Hybridoma 21BA1-1H1
3. **Lot Number:** IRP 597
4. **Fill Date:** April 8, 2011
5. **Expiration Date:** August 31, 2029

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

6. **Intended Use:** For use in potency testing of *E. coli* biologics containing the K88 pilus antigen, according to Supplemental Assay Method (SAM) 621.
7. **Instructions for Use:** Dilute the K88-HRP conjugate 1:6,000 in phosphate-buffered saline supplemented with 0.05% Tween 20 and 1% ovalbumin and use immediately, according to **SAM 621**.
8. **Test of Reagent:** The K88-HRP conjugate 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:** Approximately 50 µL aliquots in microfuge vials.
10. **Storage Conditions:** Maintain at or below -70°C for long-term storage. The conjugate may be stored at 4°C up to 2 weeks.
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6100.
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 pili-

immunized BALB/c mouse splenocytes 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 anti-K88 ascites fluid was labeled with horseradish peroxidase, filter-sterilized, and stored at -70°C or lower.

**14. Other:** None.

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

Reagent orders and feedback should be sent *including phone number* to the following email address: [VS.DB.CVB.Reagent.Requests@usda.gov](mailto:VS.DB.CVB.Reagent.Requests@usda.gov)

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