

**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 589
4. **Fill Date:** April 22, 2010
5. **Expiration Date:** Not Applicable

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 pilus antigen, according to **Supplemental Assay Method (SAM) 621**.
7. **Instructions for Use:** Dilute the K88-HRP conjugate 1:800 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 25- μ L 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 months after removal from freezer.
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 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. This lot was previously designated Lot 4 and currently known as IRP 589.

14. Other:

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: CVB@aphis.usda.gov

Reagent orders forms (APHIS 2018) are available from:
http://www.aphis.usda.gov/animalhealth/cvb_forms

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