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Certificate of Analysis

Monoclonal Antibody

Cell Line: BA-29
Specificity: Binds to the E2 (gp53) protein of type 2 Bovine Viral Diarrhea Virus (BVDV2).

Note: BVDV1 genotypes usually produce only mild diarrhea in immunocompetent cattle, while BVDV2 genotypes can produce thrombocytopenia, hemorrhages, and acute fatal disease. The viruses of either genotype may exist as one of two biotypes, cytopathic or noncytopathic.

Isotype: IgG_{2a}
Lot No.: BA290904

Known Applications: Can be used as a typing reagent for BVDV2 using indirect immunofluorescence or indirect immunoperoxidase reactions.

Description and Handling: This monoclonal antibody is produced as mouse ascites fluid, clarified by centrifugation, and filtered through a 0.2 µM filter. The concentration is 1.0 mg/ml in phosphate-buffered saline, preserved with sodium azide.

Storage: When the vial is stored at 2-8°C, it should be stable for one year.

Quality Control Method (VMRD QC640): Indirect FA using BVDV Type 1 (Modderman) slide (VMRD catalog no. 210-88-10-BVD), Type 2 (TN 131) slide, and sheep anti-mouse IgG (whole molecule).

Result: 1-2+ positive fluorescence at 1:10 dilution in FA Conjugate Diluting Buffer (VMRD catalog no. 210-91-CB) on BVDV Type 2; trace at 1:10 on BVDV Type 1.

Other Reactions or Comments: Trace background on BVDV1; no background on BVDV2.

FOR IN VITRO LABORATORY USE ONLY.

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References:

- Deregt, D., *et al.* Monoclonal antibodies to the E2 protein of a new genotype (type 2) of bovine viral diarrhea virus define three antigenic domains involved in neutralization. *Virus Research* 57(2):171-181 (Oct. 1998).
- Deregt, D., and S. Prins. A monoclonal antibody-based immunoperoxidase layer (micro-isolation) assay for detection of type 1 and type 2 bovine viral diarrhea viruses. *Can. J. Vet. Res.* 62(2):152-155 (Apr. 1998).