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Certificate of Analysis

Canine Distemper Virus (CDV)

Direct FA Conjugate

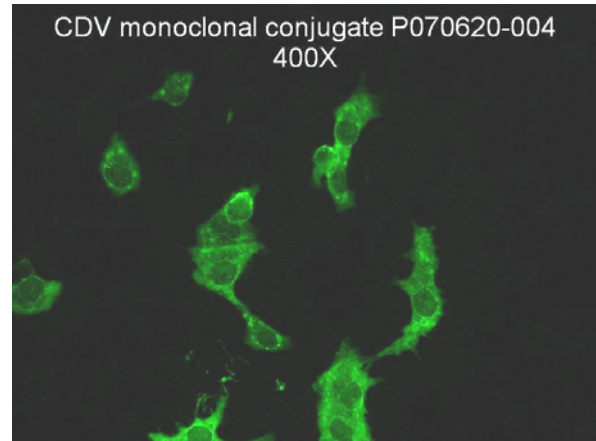
CATALOG NO.: 210-06-CDV

VOLUME: 10 ml

LOT: P070620-004

EXPIRATION: 2 July 2011

VIRUS: Canine Distemper Virus (CDV)



DESCRIPTION: Anti-CDV monoclonal antibody conjugated to fluorescein isothiocyanate. Murine origin. Ready to use.

QUALITY CONTROL METHOD: Direct FA on CDV infected cell cultures using VMRD, Inc. control slides (catalog no. SLD-FAC-CDV), CDV positive blood smear slides (catalog no. 214-P-CDV), and CDV negative blood smear slides (catalog no. 214-N-CDV) to detect binding.

Specific Reaction: 4+ on positive well and negative on negative well with no background. 4+ positive fluorescence on CDV positive blood smear and negative on negative blood smear with no background.

Other Reactions or Comments: NA

INTENDED USE: This reagent is suitable for titration and/or detection of CDV in cell cultures or tissues. Does not stain the following canine agents: CAV-2, CCV, CPI, CPV, *Ehrlichia canis*, *Borrelia burgdorferi* (Lyme Disease), *Neospora caninum*, and *Rickettsia rickettsii* (Rocky Mountain Spotted Fever).

STORAGE: This conjugate is provided in liquid form and should be stored at 4-8°C. DO NOT FREEZE! If conjugate becomes cloudy, it should be discarded. This conjugate contains 10 ppm ProClin as a preservative.

FOR *IN VITRO* LABORATORY USE ONLY.

WARRANTY: VMRD, Inc. warrants that this product is as described in the quantity and contents stated on the label at the time of delivery to the customer. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE MADE BEYOND THE LABEL DESCRIPTION, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Remedy is limited to replacement of the product or refund of the purchase price. VMRD, Inc. is not liable for property damage, personal injury, or economic loss caused by the product. The information listed in this information sheet is provided for reference only, and should not be substituted for the user's own incoming material quality control.

RECOMMENDED STAINING PROCEDURE FOR DIRECT FA:

1. Air dry smears or tissue sections for at least 30 minutes (optimal is overnight) at room temperature (do not dry cell cultures!).
2. Fix smears or tissue sections on slides for 20 minutes in acetone-methanol (75/25) at room temperature. Cell cultures should be rinsed with PBS and fixed in pure acetone for 10 minutes at room temperature. After fixation and before staining, blood smear slides should be dried for 10 minutes in a dry 37°C incubator. Exfoliates and buffy coats should be dried longer, up to 45 minutes, in a dry 37°C incubator.
3. Stain slides with 50-75 µl conjugate for 30 minutes at 37°C in humid chamber.
4. Gently rinse slides briefly in FA Rinse Buffer, pH 9.0 (VMRD catalog no. 210-90-RB) and then soak for 10 minutes in FA Rinse Buffer, pH 9.0.
5. Drain slides and dry back and edges with a paper towel. Do not allow stained surface to dry. Do not rinse with water.
6. Mount with FA Mounting Fluid [glycerol/FA rinse buffer, pH 9.0, (50/50)] (VMRD catalog no. 210-92-MF) and view with good quality fluorescence microscope at 100X-250X. Confirmation may be made at 400X.

PHOSPHATE BUFFERED SALINE (PBS) SOLUTION (pH 7.2):

- Na₂HPO₄ 1.19 gm
- NaH₂PO₄ 0.22 gm
- NaCl 8.55 gm
- DI/dH₂O Q.S. to 1 liter

4X FA RINSE BUFFER (pH 9.0):

- Na₂CO₃ 11.4 gm
- NaHCO₃ 33.6 gm
- NaCl 8.5 gm
- DI/dH₂O Q.S. to 1 liter

Final pH should be 9.0-9.5. This is a 4X concentrate and should be diluted 1:4 with DI/distilled water for use as a working buffer. Keep in a tightly stoppered container at room temperature. FA MOUNTING FLUID is made by mixing glycerol and FA Rinse Buffer, pH 9.0, in equal proportions.