



**VMRD**

PO Box 502, Pullman, WA 99163 USA

Telephone: 509-334-5815

Fax: 509-332-5356

E-mail: [vmrd@vmrd.com](mailto:vmrd@vmrd.com)

Web site: <http://www.vmrd.com>

## Certificate of Analysis

### ANTI-CANINE IgM

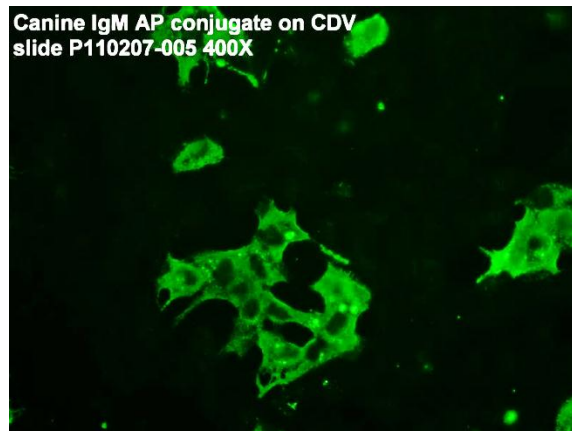
#### *FITC Anti-Immunoglobulin Conjugate*

**CATALOG NO.:** CJ-F-CANM-AP-1ML

**VOLUME:** 1 ml

**LOT:** P110207-005

**EXPIRATION:** 09 January 2017



**DESCRIPTION:** Anti- Canine IgM polyclonal antiserum conjugated to fluorescein isothiocyanate (FITC). Affinity Purified. Caprine origin. Ready to use. Liquid.

**QUALITY CONTROL METHOD:** IFA using VMRD, Inc. CDV 12-well slide (catalog no. SLD-IFA-CDV), and CDV IgM Positive Control (catalog no. PC-IFA-CDV-M).

**Specific Reaction:** 3+ fluorescence with CPV IgM positive control and negative with the diluent control, no background.

**Other Comments:** The raw material (concentrated conjugate) has also been tested satisfactorily by VMRD's IFA systems for *Anaplasma phagocytophila*, canine adenovirus type 1 and 2 (CAV 1 and 2), canine coronavirus (CCV), *Brucella canis* (canine brucellosis), canine distemper virus (CDV), canine herpesvirus type 1 (CHV), canine parainfluenza virus type 2 (CPI-2), canine parvovirus (CPV), *Ehrlichia canis*, *Borrelia burgdorferi* (Lyme disease), *Leishmania infantum*, *Neospora caninum* (canine origin), *Rickettsia rickettsii* (RMSF), and *Toxoplasma gondii*.

**PATTERN OF FLUORESCENCE:** The pattern of fluorescence will vary depending on what canine system was used.

**INTENDED USE:** Systems listed above.

**STORAGE:** This conjugate is provided in liquid form and should be stored at 2-7°C. **DO NOT FREEZE!** It should also be stored in the original container and/or in the dark. If conjugate becomes cloudy it should be discarded. This conjugate contains 0.09% sodium azide as a preservative.

**REFERENCES:** NA

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 INDIRECT FA:**

1. Warm slide to room temperature before removing from foil pouch.
2. Place diluted serum on the designated wells. Dilute serum in serum diluting buffer, pH 7.2 (catalog no. FASDB-100ML) however if high background due to anti-bovine IgG activity is present it may be advisable to use SSDB-100ML.
3. Incubate slide in humid chamber at 37°C for 30 minutes.
4. Using a wash bottle, gently rinse slide briefly in FA rinse buffer, pH 9.0 (catalog no. FARB-4X) and then soak for 10 minutes in FA rinse buffer, pH 9.0.
5. Drain slide and dry around wells by pressing blotter (included in pouch) to front surface. Place labeled anti-IgG or IgM on the wells.
6. Incubate as in step 3.
7. Rinse as in step 4.
8. Drain slide and dry back and edges with a paper towel. Do not allow stained surface to dry. Do not rinse with water.
9. Mount with mounting fluid [glycerol/FA rinse buffer, pH 9.0, (50/50)] (catalog no. FAMF-10ML) and view with good quality fluorescence microscope at 100X-250X. Confirmation may be made at 400X.

**RECOMMENDED STAINING PROCEDURE FOR DIRECT FA:**

1. Warm slide to room temperature before removing from foil pouch.
2. Place direct FA conjugate on the designated wells.
3. Incubate slide in humid chamber at 37°C for 30 minutes.
4. Using a wash bottle, gently rinse slide briefly in FA rinse buffer, pH 9.0 (catalog no. FARB-4X) and then soak for 10 minutes in FA rinse buffer, pH 9.0.
5. Drain slide and dry back and edges with a paper towel. Do not allow stained surface to dry. Do not rinse with water.
6. Mount with mounting fluid [glycerol/FA rinse buffer, pH 9.0, (50/50)] (catalog no. FAMF-10ML) and view with good quality fluorescence microscope at 100X-250X. Confirmation may be at 400X.

**SERUM DILUTING BUFFER (pH 7.2):\***

- Na<sub>2</sub>HPO<sub>4</sub> . . . . . 1.19 gm
- NaH<sub>2</sub>PO<sub>4</sub> . . . . . 0.22 gm
- NaCl . . . . . 8.55 gm
- BSA . . . . . 10.0 gm
- DI/dH<sub>2</sub>O . . . . . Q.S. to 1 liter

\* This recipe makes 1 liter. If you need less, adjust recipe accordingly. Store at 2-7°C. Add 0.09% NaN<sub>3</sub> if diluted serum is not going to be used within one week.

**4X FA RINSE BUFFER (pH 9.0):**

- Na<sub>2</sub>CO<sub>3</sub> . . . . . 11.4 gm
- NaHCO<sub>3</sub> . . . . . 33.6 gm
- NaCl . . . . . 8.5 gm
- DI/dH<sub>2</sub>O . . . . . 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. MOUNTING FLUID is made by mixing glycerol and FA rinse buffer, pH 9.0, in equal proportions.