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## Certificate of Analysis

### ANTI-CAPRINE IgG

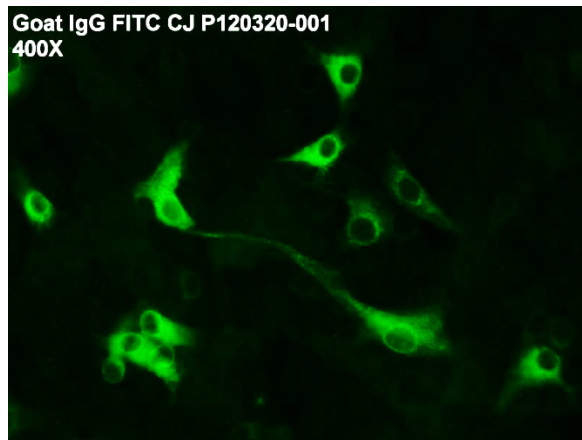
*FITC Anti-Immunoglobulin Conjugate*

**CATALOG NO.:** CJ-F-CAPG-10ML

**VOLUME:** 10 ml

**LOT:** P120320-001

**EXPIRATION:** 13 April 2016



**DESCRIPTION:** Anti-Caprine IgG (whole molecule) polyclonal antiserum conjugated to fluorescein isothiocyanate (FITC). Heavy and light chain. Rabbit origin. Ready to use. Liquid.

**QUALITY CONTROL METHOD** IFA using VMRD, Inc. BVDV 12-well slide (catalog no. SLD-IFA-BVD), and BVDV Antiserum (catalog no. PAB-BVD).

**Specific Reaction:** 2-4+ fluorescence with antiserum at 1/400 and negative with diluent control no background.

**Other Comments:** The raw material has also been tested satisfactorily by VMRD's IFA systems for bovine adenovirus type 1, 3, and 5 (BAV 1, 3, and 5), bovine respiratory syndrome virus (BRSV), bluetongue virus (BTV), bovine viral diarrhea virus (BVDV), caprine arthritis encephalitis virus (CAEV), infectious bovine rhinotracheitis (IBR), *Neospora caninum* (bovine origin), bovine parainfluenza virus type 3 (PI-3), bovine reovirus (REO), *Toxoplasma gondii*. This conjugate will also react with bovine IgG but has not been quality controlled for this purpose.

**PATTERN OF FLUORESCENCE:** The pattern of fluorescence will vary depending on what Caprine 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.

Note: Microscopic precipitates may appear in this product and it is recommended that a short high speed centrifugation (approximately 10,000xg for 3 min) be performed to clarify it.

**RECOMMENDED STAINING PROCEDURE FOR DIRECT FA:**

1. Warm slide to room temperature before removing from foil pouch.
2. Place of 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.