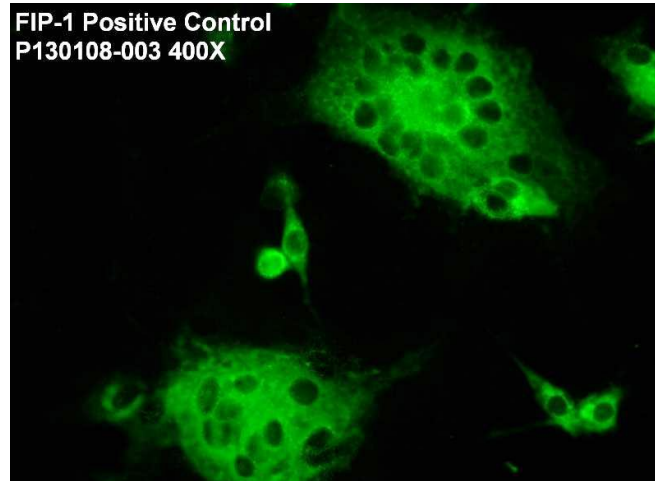


CERTIFICATE OF ANALYSIS

FELINE INFECTIOUS PERITONITIS VIRUS TYPE 1 (FIP-1)

IFA Positive Control Serum

Catalog:	PC-IFA-FIP1
Volume:	1 ml
Lot:	P130108-003
Expiration:	21 January 2017
Agent:	Feline Infectious Peritonitis Type 1 (FIP-1)



Description:

Feline serum diluted in PBS, 10% DBS, 0.09% sodium azide.

Quality Control Method:

Indirect FA using VMRD, Inc. FIP-1 12-well substrate slide (catalog no. SLD-IFA-FIP1), FIP-1 Negative control (catalog no. NC-IFA-FIP1), and Anti-Feline IgG FITC CJ (catalog no. CJ-F-FELG-AP-1ML or 10ML).

Specific Reaction: 4+ fluorescence with the positive control at neat, no background and an endpoint titer of trace to 1+ at 1/16.

Other Comments: NA

Pattern Of Fluorescence:

Multiple syncytia, plaques and some individual cells with granular cytoplasmic fluorescence.

Intended Use:

As a positive control serum in detection of antibody to FIP-1 by indirect FA technique. This serum should be used undiluted to demonstrate positive fluorescence.

Storage:

Store at 2-7°C. DO NOT FREEZE! If control becomes cloudy it should be discarded.

References: NA

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):*

- Na₂HPO₄.....1.19 gm
- NaH₂PO₄.....0.22 gm
- NaCl.....8.55 gm
- BSA.....10.0 gm
- DI/dH₂O.....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% NaN₃ if diluted serum is not going to be used within one week.

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. MOUNTING FLUID is made by mixing glycerol and FA rinse buffer, pH 9.0, in equal proportions.