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Certificate of Analysis

FELINE INFECTIOUS PERITONITIS TYPE 2 (FIP-2) FA Substrate Slide

CATALOG NO.: SLD-IFA-FIP2

SIZE: 12 Well

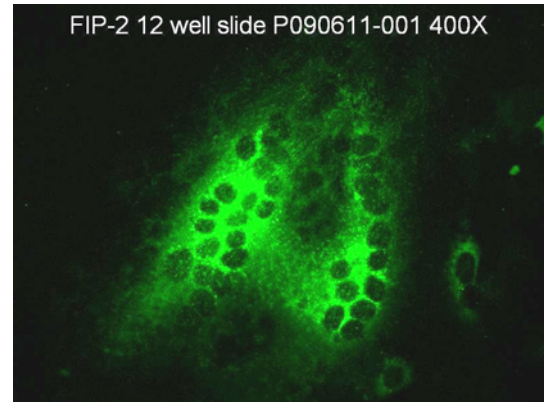
LOT: P090611-001

EXPIRATION: 25 June 2011

AGENT: Feline Infectious Peritonitis Type 2 (FIP-2)

STRAIN: Type II / Haber

CELL CULTURE SUBSTRATE: Crandell Feline Kidney Cells (CrFK) TENN



DESCRIPTION: Slides are virus-infected cell cultures grown on the surface of Teflon-masked slides. They are supplied fixed and unstained in moisture-free foil pouches. All wells contain both positive and negative cells. The positive cells usually total no more than 30% of the cells in the well so that good contrast may be seen.

QUALITY CONTROL METHOD: Indirect FA using VMRD, Inc. FIP-2 Positive control (catalog no. 211-P-FIP2), FIP-2 Negative control (catalog no 211-N-FIP2), and Anti-Feline IgG FITC CJ (catalog no. 055-1 and 055-10).

Specific Reaction: 4+ positive signal with no background, no reaction with negative control.

Other Comments: 0-25 positive cells and syncytia per high powered field.

PATTERN OF FLUORESCENCE: Multiple syncytia, plaques and some individual cells with granular cytoplasmic fluorescence.

INTERPRETATION OF RESULTS: Useful in detecting viral antibody by IFA. May be used to differentiate antibody class (IgG or IgM) with suitable quality fluoresceinated second antibody conjugate. For cats expressing clinical signs consistent with FIP, we recommend testing sera at a screening dilution of 1:6400. Screening of healthy cats should be at 1:400. For the 1:6400 screening dilution, we recommend using a single-step dilution of 1 µl of test serum in 6.4 ml of PBS for the most consistent interlaboratory results. Making serial dilutions of this magnitude may compound errors of various kinds. Endpoint titers may be determined from four-fold dilutions of the 1:6400 or 1:400 screening dilutions. Sera diluted in PBS should be assayed within 1 hour of making the dilution.

INTENDED USE: Generally used for Indirect FA to detect antibody to FIP-2 but may also be used as a positive and negative control substrate slide for Direct FA conjugates when applicable.

STORAGE: Store sealed in foil pouch at -20°C. Avoid self-defrosting freezers.

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 50 µl diluted serum on the designated wells. Dilute serum in serum diluting buffer, pH 7.2 (catalog no. 210-93-SB).
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. 210-90-RB) 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 50 µl 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. 210-92-MF) 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 50 µl 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. 210-90-RB) 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. 210-92-MF) 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.