

**VMRD**

PO Box 502, Pullman, WA 99163 USA

Telephone: 509-334-5815
Fax: 509-332-5356
E-mail: vmrd@vmrd.com
Web site: <http://www.vmrd.com>

Certificate of Analysis

PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS (PRRSV)

Negative Control Serum

CATALOG NO.: NC-IFA-PRRS**VOLUME:** 1 ml**LOT:** P090928-006**EXPIRATION:** 28 March 2031**AGENT:** Porcine Reproductive and Respiratory Syndrome Virus (PRRSV)**STRAIN:** NA**DESCRIPTION:** Porcine serum diluted in PBS, 10% DBS, 0.09% sodium azide.**QUALITY CONTROL METHOD:** Indirect FA using in-house 2-well slides, Positive Control (Catalog no. PC-IFA-PRRS), and Anti-Porcine IgG Conjugate (catalog no. CJ-F-PORG-AP-10ML).**Specific Reaction:** Negative. No background.**Other Comments:** NA**PATTERN OF FLUORESCENCE:** None with our system.**INTENDED USE:** As a negative control serum in detection of antibody to PRRSV by indirect FA technique. This control serum should be used undiluted to demonstrate negative fluorescence, if any.**STORAGE:** Store at 2-7°C. DO NOT FREEZE! If control becomes cloudy it should be discarded.**REFERENCES:** NA

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5 April 2023

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.