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# **Certificate of Analysis**

## Neospora caninum

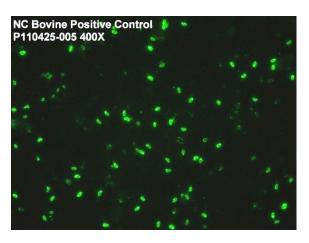
IFA Positive Control Serum Bovine Origin

CATALOG NO.: PC-IFA-NC-BOV

**VOLUME:** 1 ml **LOT:** P110425-005

**EXPIRATION:** 06 February 2017

**AGENT:** Neospora caninum



**DESCRIPTION:** Bovine serum diluted in PBS, 1% BSA, 0.09% sodium azide.

**QUALITY CONTROL METHOD:** IFA using VMRD, Inc. *Neospora caninum* 12-well slide (catalog no. SLD-IFA-NC), *Neospora caninum* Bovine Negative Control (catalog no. NC-IFA-NC-BOV), and Anti-Bovine IgG<sub>1, 2</sub> AP FITC conjugate (catalog no. CJ-F-BOVG-AP-1ML or 10ML).

**Specific Reaction:** 3-4+ fluorescence with no background at neat and an endpoint

titer of trace to 1+ at 1/8.

**Other Comments: NA** 

**PATTERN OF FLUORESCENCE:** Organisms with bright diffuse or peripheral fluorescence.

**INTENDED USE:** As a positive control serum in detection of antibody to *Neospora caninum* 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

#### FOR IN VITRO LABORATORY USE ONLY.

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#### 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 <u>back and edges</u> 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 <u>back and edges</u> 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>	gm
-	NaH <sub>2</sub> PO <sub>4</sub> 0.22	gm
-	NaCl8.55	gm
-	BSA	gm
_	DI/dH <sub>2</sub> O	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>	gm
-	NaHCO <sub>3</sub>	gm
-	NaCl8.5 g	gm
-	DI/dH <sub>2</sub> O	ter

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.