

**VMRD**

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## Certificate of Analysis

### TOXOPLASMA GONDII ANTISERUM

CATALOG NO.: 210-70-TOXO  
re-order as PAB-TOXO

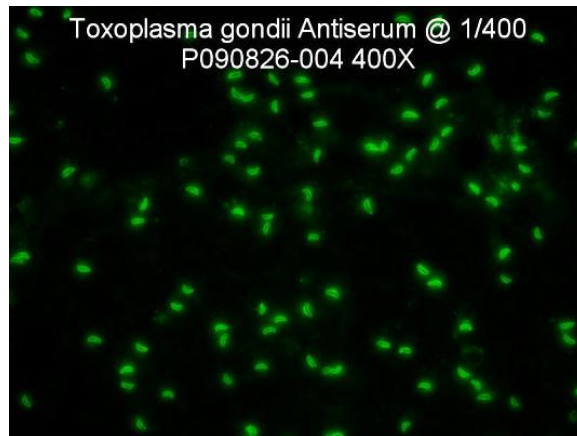
VOLUME: 1 ml

LOT: P090826-004

EXPIRATION: 15 September 2015

AGENT: *Toxoplasma gondii*

STRAIN: NA



**DESCRIPTION:** *Toxoplasma gondii* polyclonal antiserum. Liquid. Caprine origin.

**QUALITY CONTROL METHOD:** IFA using VMRD, Inc. *Toxoplasma gondii* 12 well slide (catalog no. SLD-IFA-TOXO), and Anti-Caprine IgG FITC CJ (catalog no. CJ-F-CAPG-1ML or 10ML).

**Specific Reaction:** 3-4+ fluorescence at 1/1600, no background with an endpoint titer of > 1/10,000.

**Other Comments:** The Antiserum has also been screened by indirect FA and has been found to react with caprine arthritis encephalitis virus (CAEV) trace to 1+ at 1/1600 this is the endpoint, but does not react with bovine leukemia virus (BLV), bovine herpesvirus type 1 (BHV-1/IBR), parainfluenza virus type 3 (PI-3), bovine adenovirus type 1, 3, and 5 (BAV-1, 3, 5), bovine parvovirus (BPV), bluetongue virus (BTV), reovirus (REO), bovine viral diarrhea virus (BVDV), bovine respiratory syncytial virus (BRSV), bovine coronavirus (BCV), feline calicivirus (FCV), feline leukemia virus (FeLV), feline herpesvirus type 1 (FHV-1/FVR), feline panleukopenia virus (FPLV), feline infectious peritonitis virus type 1 and 2 (FIP-1 & 2), canine adenovirus type 1 and 2 (CAV-1 & 2), canine coronavirus (CCV), canine distemper virus (CDV), canine herpesvirus type 1 (CHV-1), canine parainfluenza virus type 2 (CPI-2), and canine parvovirus (CPV).

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

**INTENDED USE:** Useful for IFA. Not suitable for cell culture serum neutralization because it contains 0.09% sodium azide as a preservative.

**STORAGE:** This antiserum is provided in liquid form and should be stored at 2-7°C. DO NOT FREEZE! If antiserum becomes cloudy, it should be discarded.

#### REFERENCES:

Ramos-Vara, J.A., and M.E. Beissenherz. Optimization of immunohistochemical methods using two different antigen retrieval methods on formalin-fixed, paraffin-embedded tissues: Experience with 63 markers. *J. Vet. Diagn. Invest.* 12:307-311, 2000.

FOR IN VITRO LABORATORY USE ONLY.

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10 September 2013

**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. FASDB-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 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. 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 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. 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.