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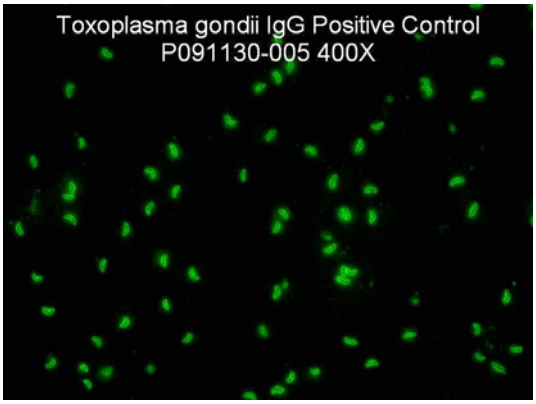
# Certificate of Analysis

## TOXOPLASMA GONDII

*IgG IFA Positive Control Serum*




**CATALOG NO.:** PC-IFA-TOXO-FEL-G
**VOLUME:** 1 ml
**LOT:** P091130-005
**EXPIRATION:** 26 September 2015

**AGENT:** *Toxoplasma gondii*

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

**QUALITY CONTROL METHOD:** IFA using VMRD, Inc. *Toxoplasma gondii* 12 well slide (catalog no. SLD-IFA-TOXO), Negative Control (catalog no. NC-IFA-TOXO-FEL), and Anti-Feline IgG FITC Conjugate (catalog no. CJ-F-FELG-1ML or CJ-F-FELG-10ML).

**Specific Reaction:** 4+ fluorescence at neat and an endpoint titer at 1/16.
**Other Comments:** NA

**PATTERN OF FLUORESCENCE:** Organisms with bright diffuse or peripheral fluorescence. Apical (polar) staining is not considered positive. High titer test sera may fluoresce brighter than this positive control serum.

**INTENDED USE:** As a positive control serum in detection of antibody to *Toxoplasma gondii* by indirect FA technique. This serum should be used undiluted to demonstrate positive fluorescence. The endpoint requires further three two-fold dilutions in PBS.

**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.

***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):**

- $Na_2HPO_4$ . . . . . 1.19 gm
- $NaH_2PO_4$ . . . . . 0.22 gm
- NaCl . . . . . 8.55 gm
- BSA . . . . . 10.0 gm
- DI/$dH_2O$ . . . . . 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% $NaN_3$ if diluted serum is not going to be used within one week.

***4X FA RINSE BUFFER (pH 9.0):***

- $Na_2CO_3$ . . . . . 11.4 gm
- $NaHCO_3$ . . . . . 33.6 gm
- NaCl . . . . . 8.5 gm
- DI/$dH_2O$ . . . . . 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.