

### **CERTIFICATE OF ANALYSIS**

# Lyme Disease

IFA Negative Control Serum

Catalog No.:	NC-IFA-LD
Volume:	1 ml
Lot:	P130618-003
Expiration:	20 August 2017
Agent:	Borrelia burgdorferi

# Description:

Canine serum diluted in PBS, 10% DBS, 0.09% sodium azide.

# Quality Control Method:

Indirect FA using Lyme Disease 12-well slide (catalog no. SLD-IFA-LD), positive control (catalog no. PC-IFA-LD), and Anti-Canine IgG FITC conjugate (catalog no. CJ-F-CANG-10ML).

Specific Reaction: Negative with no background.

Other Comments: NA

#### Pattern Of Fluorescence:

None with our system.

#### Intended Use:

As a negative control serum in detection of antibody to *Borrelia burgdorferi* (Lyme Disease) 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

PO Box 502 Pullman, WA 99163 USA 

## 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 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 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

<sup>\*</sup>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):

-	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	O.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.