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Certificate of Analysis

CANINE LYME DISEASE

FA Substrate Slide

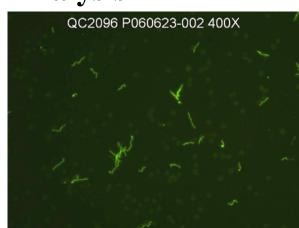
CATALOG NO.: 210-88-12-LD

SIZE: 12 well

LOT: P060623-002-071908 **EXPIRATION:** 19 July 2008

AGENT: Borrelia burgdorferi Cell Culture Substrate: NA

Strain: B31



QUALITY CONTROL METHOD: Indirect FA using VMRD Canine Lyme Disease Positive Control (catalog no. 211-P-LD), Canine Lyme Disease Negative Control (catalog no. 211-N-LD), Anti-Canine IgG FITC Conjugate (catalog no. 035-10).

Specific Reaction: 4+ positive on spyrochetes.

Other Reactions or Comments: No background; 80-120 spyrochetes per high power field.

PATTERN OF FLUORESCENCE: Spirochetes with uniform surface fluorescence.

INTENDED USE: For detection of antibody to *B. burgdorferi* by indirect FA technique. May be used to differentiate antibody class (IgG or IgM) with suitable quality fluoresceinated second antibody conjugate.

STABILITY: Foil-pouch sealed slides are stable for at least 6 months when stored below 10°C. Avoid self-defrosting freezers.

DESCRIPTION: Slides contain fixed *B. burdorferi* with background of sheep red blood cell suspension. They are unstained and sealed in moisture-free foil pouches.

INTERPRETATION OF RESULTS: Titers of 1:64 (IgG) and greater are considered positive. Positive control sera, with stated endpoints, are available on request (catalog no. 211-P-LD). Positive titers of 1:256 or less should be confirmed by some other method, i.e., Western Blot Analysis, because of cross-reactions with oral spirochetes [Schillhorn *et al.*, Vet. Rec. (1993) 132, p. 512].

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 10 μl diluted serum on the designated wells. Dilute serum in serum diluting buffer, pH 7.2 (catalog no. 210-93-SB). [If background is a problem, particularly at low dilutions, use of 10% adult bovine serum diluting buffer is preferable (catalog no. 210-94-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 flick to remove excess moisture. Place 10 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 <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. 210-92-MF) and view with good quality fluorescence microscope at 100X-250X. Confirmation may be made at 400X.

SERUM DILUTING BUFFER (pH 7.2):*

-	Na ₂ HPO ₄	gm
-	NaH ₂ PO ₄	gm
-	NaCl8.55	gm
-	BSA	gm
-	DI/dH ₂ O	liter

^{*} This recipe makes 1 liter. If you need less, adjust recipe accordingly. Store at 4°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 ₂ CO ₃	11.4 gm
-	NaHCO ₃	33.6 gm
-	NaCl	8.5 gm
-	DI/dH ₂ 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.