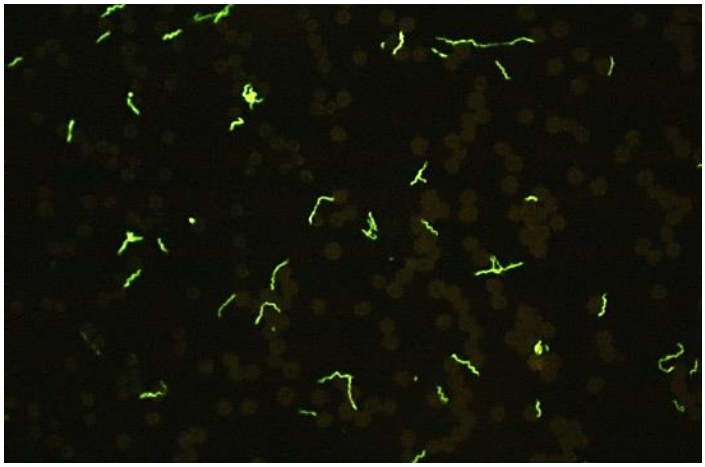
Veterinary Medical Research & Development

Technical Data Sheet

Borrelia burgdorferi (Lyme Disease)

FA Substrate Slide

Catalog No.:	SLD-IFA-LD
Size:	12 Well
Shelf Life:	4 Years from date of qualification
Well Capacity:	10 µl
Substrate:	*Borrelia burgdorferi* with background suspension, strain B31



Description:

Slides contain fixed *B. burdorferi* with background suspension. They are unstained and sealed in moisture-free foil pouches.

Intended Use:

Generally used for Indirect FA to detect antibody to *B. burgdorferi* but may also be used as a positive and negative control substrate slide for direct FA conjugates when applicable. May be used to differentiate antibody class (IgG or IgM) with suitable quality fluoresceinated second antibody conjugate.

Interpretation of Results:

It is recommended that any diagnostic interpretation be validated for the particular laboratory and sample population against samples of known disposition and/or a suitable reference assay. Titers of 1/64 (IgG) and greater are considered positive. Positive control sera, with stated endpoints, are available on request (catalog no. PC-IFA-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].

Storage:

Store sealed in foil pouch at -20°C. Avoid self-defrosting freezers.

References:

NA

Technical Data Sheet Version:

Version 1

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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 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 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_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.