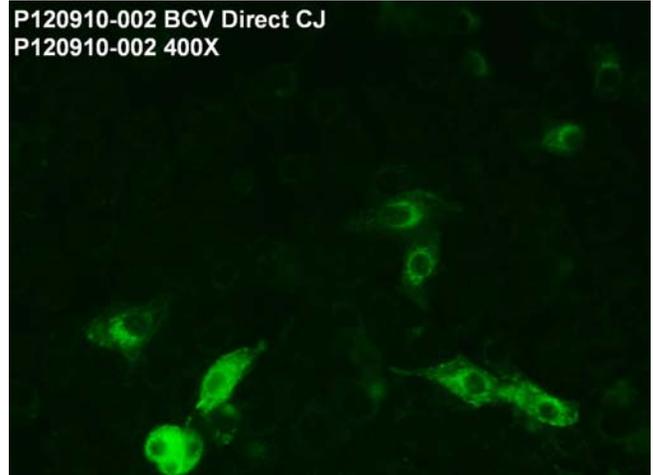


CERTIFICATE OF ANALYSIS

BOVINE CORONAVIRUS (BCV)

Direct FA Conjugate

Catalog No.:	CJ-F-BCV-10ML
Volume:	10 ml
Lot:	P120910-002
Expiration:	25 October 2016
Agent:	Bovine Coronavirus (BCV)
Strain:	NA



Description:

Anti-BCV polyclonal antiserum conjugated to fluorescein isothiocyanate (FITC). Bovine origin. Ready to use. Liquid.

Quality Control Method:

Direct FA using VMRD Inc. BCV 2-well slide (SLD-FAC-BCV).

Specific Reaction: 2-4+ fluorescence on the positive well and negative on the negative well, no background.

Other Comments: The raw material has also been screened by Indirect FA and does not react with *Babesia bovis*, *Babesia bigemina*, bovine adenovirus type 1, 3, and 5 (BAV 1, 3, and 5), bovine leukemia virus (BLV), bovine parvovirus (BPV), bovine respiratory syncytial virus (BRSV), bluetongue virus (BTV), bovine viral diarrhea virus (BVDV), infectious bovine rhinotracheitis (IBR/BHV-1), *Neospora caninum* (bovine origin), bovine parainfluenzavirus type 3 (PI-3), bovine reovirus (REO).

Pattern Of Fluorescence:

Granular cytoplasmic and nuclear fluorescence mainly on single cells but also some small syncytia.

Intended Use:

Stains BCV in gut smears/sections from calves with coronaviral enteritis and in tissue culture.

Storage:

This conjugate is provided in liquid form and should be stored at 2-7°C. DO NOT FREEZE! It should also be stored in the original container and/or in the dark (even after dilution). If conjugate becomes cloudy it should be discarded. This conjugate contains 0.09% sodium azide as a preservative.

References: NA

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):*

- Na₂HPO₄.....1.19 gm
- NaH₂PO₄.....0.22 gm
- NaCl.....8.55 gm
- BSA.....10.0 gm
- DI/dH₂O.....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% NaN₃ if diluted serum is not going to be used within one week.

4X FA Rinse Buffer (pH 9.0):

- Na₂CO₃.....11.4 gm
- NaHCO₃.....33.6 gm
- NaCl.....8.5 gm
- DI/dH₂O.....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.