

RIDX™ FMDV 3Diff/PAN Ag Combo Test Kit

Foot-and-mouth disease virus (FMDV) causes acute vesicular diseases of cloven-hoofed animals and continues to be a threat to livestock worldwide, with outbreaks causing severe economic losses.

The RIDX™ FMDV 3Diff/PAN Ag Combo Test Kit is a lateral flow chromatographic immunoassay for the detections of various types of FMDV antigens (type O, type A, type C, Asia1, SAT1, SAT2, and SAT3).

Principal: Chromatographic immunoassay for the qualitative test

Specimen: Porcine or bovine saliva, tissue or vesicular fluid around lip, tongue, gums, nose, hoof

Components

- FMDV 3Diff/PAN Ag combo test device (10 tests)
- Disposable swab (10 ea)
- Sample dilution buffer (1 vial)
- Disposable dropper (10 ea)
- Sample tube (10 ea)



Features

Clinical Sensitivity in spiking samples with virus (titer: 1.0×10^5 TCID₅₀/ml or higher)

- 1) 3Diff strip: Type O 88.2% (60/68), type A 100% (70/70), type Asia1 100% (60/60)
- 2) PAN strip: Type O 100% (68/68), type A 100% (70/70), type Asia1 100% (60/60), type SAT1 100% (20/20), type SAT2 100% (20/20), type SAT3 100% (20/20), and type C 100% (20/20)

Clinical Specificity

- 1) Type O, type A and PAN strip: Bovine 100% (92/92), Swine 100% (400/400)
- 2) Type Asia1: Bovine 100% (92/92), Swine 99.5% (398/400)

Differential diagnosis of 3 different serotypes (O, A, and Asia1).

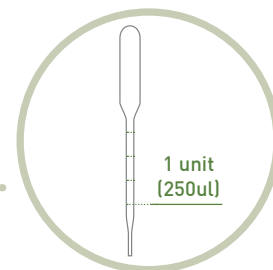
Concurrent diagnosis both of viral common antigens

(all 7 serotypes) and serotype-specific antigens (O, A, and Asia1).

Sample Preparation

Vesicular fluid

1. Collect the vesicular fluid from a blister with a syringe. If the blister bursts, collect the vascular fluid with a disposable swab.
- 2-1. Sample from intact blister
 - ① Add 1 unit (approximately 250ul) of the sample dilution buffer to the sample tube using dropper.
 - ② Add 250ul of vesicular fluid to the sample tube and mix gently.
- 2-2. Sample from burst blister
 - ① Add 2 units (approximately 500ul) of the sample dilution buffer to the sample tube using dropper.
 - ② Put sample-soaked swab into the sample dilution buffer and swirling gently.
 - ③ Press the cotton swab against the wall of the tube to extract the sample.
 - ④ Remove the swab from the test tube after extraction.



Saliva

1. Sample collection

Bovine: Collect saliva from bovine's tongue directly.

Swine: Use a chewing rope or other oral fluid collect kits.

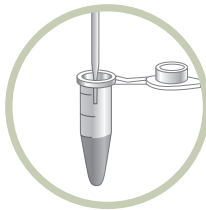
2. USE the impurities free saliva sample. Centrifuge (6,000rpm, 10min) the sample tube, if the samples have impurities (The separate container is not provided in this kit).
3. Transfer 2 units (approx. 500ul) of sample dilution buffer to the sample tube using a dropper.
4. Soak a swab with supernatant of the centrifuged saliva.
5. Put sample-soaked swab into the sample dilution buffer and swirl gently.
6. Press the cotton swab against the wall of the tube to extract the sample.
7. Remove the swab from the test tube after extraction.

Cultured virus

1. Add 200ul of the sample dilution buffer to the sample tube, Eppendorf tube or microplates.
2. Collect and add 200ul of virus-cultured media by using the micropipette to the sample tube and swirl the tube several times to mix.

Test Procedure

- 1 Take the supernatant of the prepared sample solution by using a dropper.

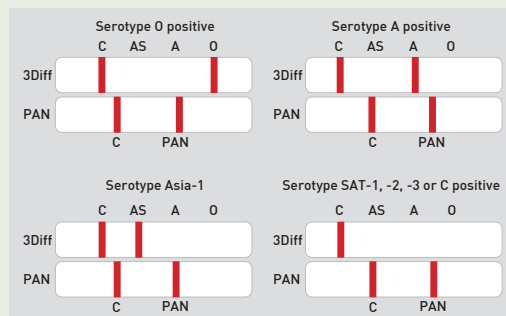


- 2 Slowly add 4 drops (100ul) of the sample solution into each sample hole on the test device.



- 3 Read the result **within 15 minutes, keep on time.**

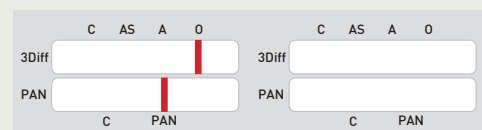
Positive



Negative



Invalid



CAT No.	Description	LIC No.	Type	Package size
LGM-VFG-71	RIDX FMDV 3Diff/PAN Ag Combo 3Diff: Serotype O, A, Asia1 PAN: O, A, C, Asia1, SAT-1, -2, -3	300-022	LFA*	10 Tests/Kit

* LFA: Lateral flow assay