



Anigen Rapid FMD NSP Ab Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of Foot and Mouth Disease virus antibody in whole blood serum or plasma



Foot-and-Mouth (FMD) disease is a severe, highly contagious viral disease of cattle and swine. It also affects sheep, goats, deer, and other cloven-hooved ruminants. Signs of illness can appear after an incubation period of 1 to 8 days, but often develop within 3 days. There are FMD serotypes: O, A, C, SAT-1, SAT-2, SAT-3, and Asia-1. These subtypes show some regionality, and the O serotype is most common. The disease is characterized by fever and blister-like lesions followed by erosions on the tongue and lips in the mouth, on the teats, and between the hooves. It causes severe losses in the production of meat and milk.

The Anigen Rapid FMD NSP Ab Test Kit is an immunochromatographic assay for the qualitative detection of FMDV antibody in whole blood, plasma and serum from bovine, ovine and porcine animals. It can be used for identification of FMD field infection in cattle, pig, goat and sheep. The specially selected recombinant nonstructural protein (NSP) antigens are used as capture material in the test

- Principle: Immunochromatographic assay
- Coated Antigen: Recombinant NSP antigen
- Specimens: Blood, Plasma, Serum
- Species: Cattle, Sheep, Goat, Pig
- Total Testing Time: 20~30 minutes
- Shelf life: 24 months
- Packing size: 10Tests/Kit
- Storage: 2~30°C
- Mass screening in the farm or laboratory
- Confirmation of FMDV infection in non-vaccination herds
- Differential test of FMD infected of vaccinated ones
- Excellent surveillance tool of FMDV
- Saving Labor & Time
- No additional equipment or technical expertise required

1. Bovine

1) Specimen collected in outbreak region(Sensitivity)

		AniGen ELISA	Commercial ELISA
Anigen	+	217	270
Rapid	-	8	13
		225	283

2) Specimen collected in FMD free region(Specificity)

Anigen	+	507
Rapid	-	5
		512

3) Result

	Anigen Rapid FMD NSP	
	Sensitivity	Specificity
AniGen ELISA	94.4% (217/225)	99.0%
Commercial ELISA	95.4% (270/283)	

2. Swine

1) Specimen collected in outbreak region(Sensitivity)

		AniGen ELISA	Commercial ELISA
Anigen	+	20	20
Rapid	-	1	2
		21	22

2) Specimen collected in FMD free region(Specificity)

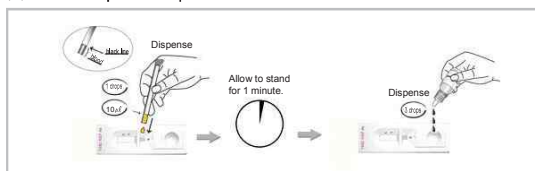
Anigen	+	566
Rapid	-	9
		575

3) Result

	Anigen Rapid FMD NSP	
	Sensitivity	Specificity
AniGen ELISA	95.2% (20/21)	98.4%
Commercial ELISA	90.9% (20/22)	

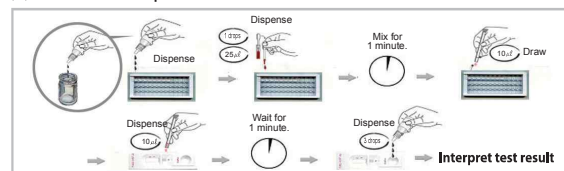
RAPID

(1) Serum & plasma specimen



- Add 5 ul of serum or plasma to the sample hole with a capillary tube
- Wait 1 minute
- Add 3 drops of the buffer
- Read the test result at 20~30 minutes

(2) Whole blood specimen



- Dispense 3 drops of the whole blood diluent into the dilution well
- Add 1 drop(25ul) of a whole blood sample with a disposable dropper
- Mix them 1 minute
- Extract the mixture, and add 5ul of the mixed sample to the sample hole with a capillary tube
- Wait 1 minute
- Dispense 3 drops of the buffer into the buffer well
- Read the test result at 20~30 minutes