MEDIAN Diagnostics

African Swine Fever Virus Antigen Rapid kit

VDRG® ASFV Ag Rapid kit

Kit Components

ASFV Ag Rapid Test Device

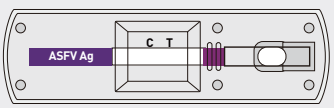
Dilution buffer (4mL)

Capillary tube

- Easy to use without equipment
- Easy to handle at field farm condition
- Fast identification of result within 15 minutes
- High clinical specificity

TEST PROCEDURE

1. Device preparation

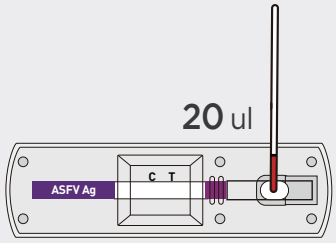


2. Collect the sample

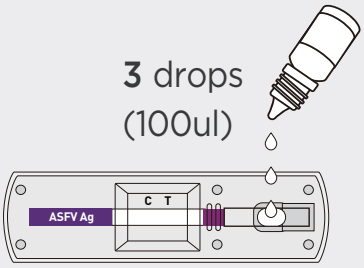
Whole blood + EDTA

(*Dark score line on the capillary tube is the indicator line for 20ul.)

3. Drop the sample

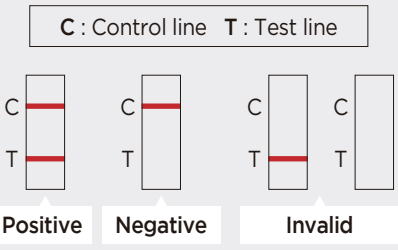


4. Add Dilution Buffer



15 mins

5. Read the result



PERFORMANCE

Clinical Sensitivity : 100% on Herd base (n=7), 87.6% on individual base (n=177)

Herd		VDRG® ASFV Ag Rapid kit		Total
		Positive	Negative	
VDx® ASFV qPCR	Positive	7	0	7
	Negative	0	0	0
	Total	7	0	7

Individual		VDRG® ASFV Ag Rapid kit		Total
		Positive	Negative	
VDx® ASFV qPCR	Positive	155	22	177
	Negative	0	0	0
	Total	155	22	177

Clinical Specificity : 97.8% on Herd base (n=46), 99.9% on individual base (n=954)

Herd		VDRG® ASFV Ag Rapid kit		Total
		Positive	Negative	
VDx® ASFV qPCR	Positive	0	0	0
	Negative	1	45	46
	Total	1	45	46

Individual		VDRG® ASFV Ag Rapid kit		Total
		Positive	Negative	
VDx® ASFV qPCR	Positive	0	0	0
	Negative	1	953	954
	Total	1	953	954

Analytical Sensitivity (Limit of Detection, LoD)

- Recombinant antigen (rAg P30): 0.575ug/mL
- Spiked pig whole blood: $5x10^4$ $TCID_{50}$/mL, Ct value 28.51

Cross Reactivity : 0% (testing 12 kinds of other pig pathogens including CSFV)

Clinical sensitivity based on Ct value of qPCR

ASFV qPCR (Ct-value)	VDRG® ASFV Ag Rapid kit*	
	Sensitivity	Specificity
Ct < 20	100% (5/5)	-
20 ≤ Ct < 24	100% (35/35)	-
24 ≤ Ct < 27	85% (34/40)	-
Total	92.5% (74/80)	100% (100/100)

*Evaluated in Poland: pig and wild boar whole blood

ORDER INFORMATION

Cat. No.	Product Name	Quantity
PS-ASF-12	VDRG® ASFV Ag Rapid kit	10 Tests/kit

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