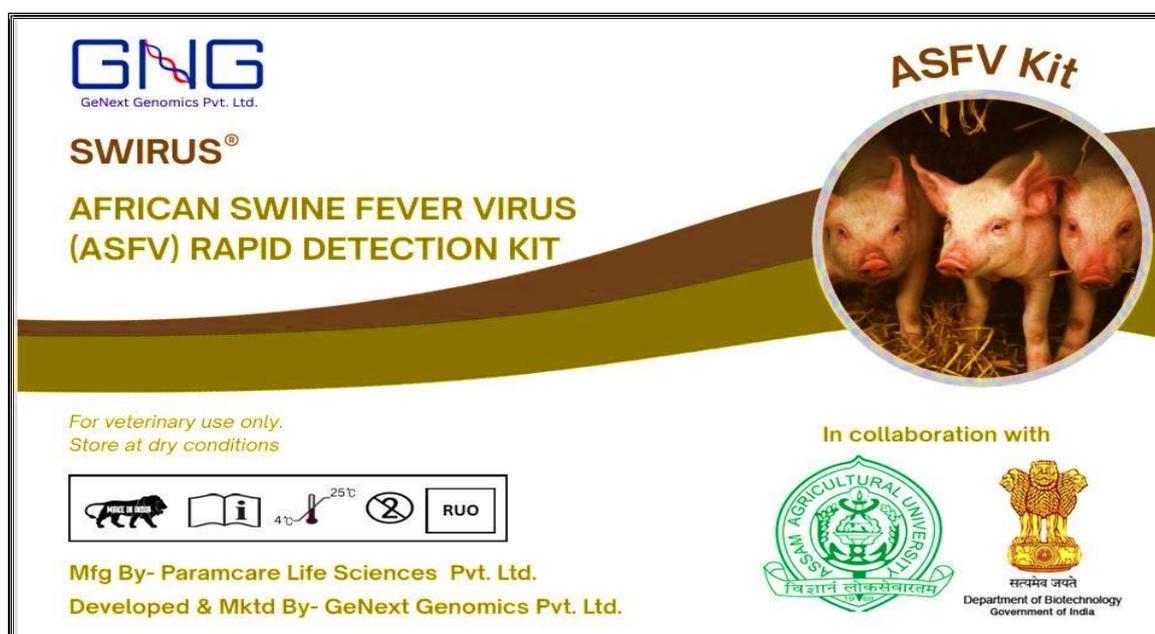


“SWIRUS”

AFRICAN SWINE FEVER VIRUS

ANTIGEN DETECTION RAPID TEST KIT

SWIRUS, India’s first indigenous ASFV Rapid **antigen** Detection Kit, delivers **accurate results in just 10 -15 minutes**, enabling on-site decision-making when every minute matters. Developed jointly by **Assam Agricultural University (AAU)** and **GeNext Genomics Pvt. Ltd.**, SWIRUS is optimized for field conditions, requiring **no lab setup or specialized training**. Designed for veterinarians, surveillance teams, and government agencies, it is a critical tool for strengthening national biosecurity and outbreak preparedness. African Swine Fever Virus (ASFV) point of care diagnostic test which detects antigen (active infection) in swine serum, plasma, and whole blood.



BASIC INFORMATION

African Swine Fever (ASF) is a highly contagious and often lethal **viral disease** that affects both domestic and wild pigs. The disease has no available vaccine or treatment, making early detection and rapid containment critical for controlling outbreaks. Since 2007, ASFV has spread **widely across Africa, Europe, and Asia**. In recent years, it has become a **major threat in Asia, particularly in countries such as India, China and Vietnam**, severely impacting the pig farming sector and causing substantial economic losses.

The ASFV rapid test kit makes use of carefully selected monoclonal antibody pairs that specifically recognize the **virus’s major structural p30 proteins**. By ensuring fast and precise detection, the test becomes a practical tool for both laboratory use and on-site field screening, enabling swift actions for disease management and control.

NEED FOR EARLY DIAGNOSIS

ASFV outbreaks spread quickly and can devastate pig populations. Conventional diagnostic methods, while accurate, often require specialized laboratories, equipment, and trained personnel, leading to delays in detection. A rapid, field-deployable, and easy-to-use test is therefore essential for on-site disease monitoring, immediate decision-making, and effective control strategies.

Note: - This SWIRUS diagnostic kit is free from any infectious components and poses no biological hazard to humans or animals.

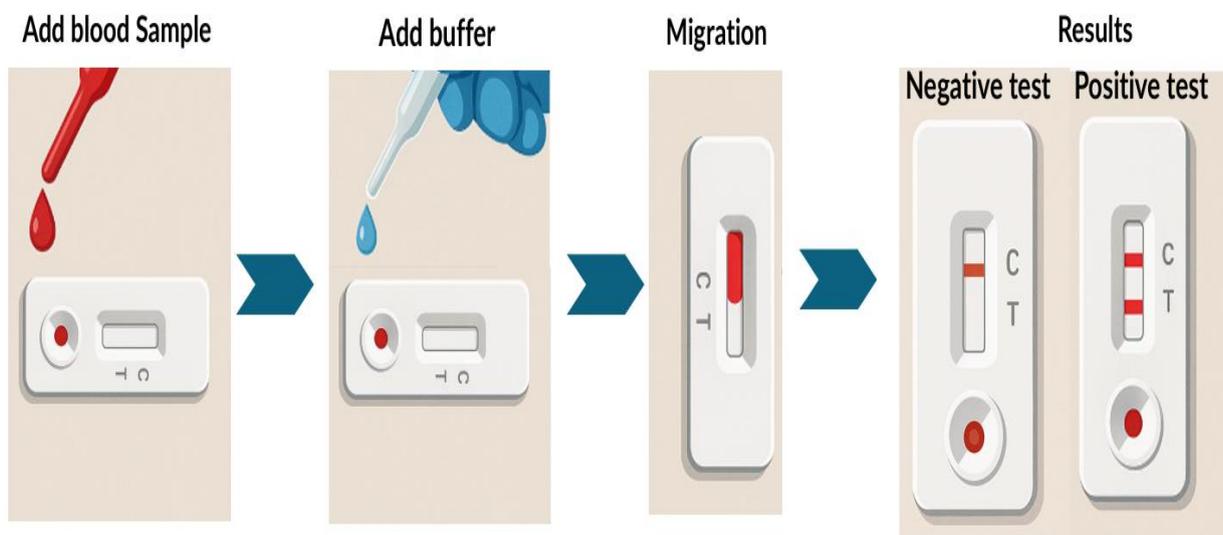
WHAT IS SWIRUS?

SWIRUS is a **rapid lateral-flow antigen test** designed to detect African Swine Fever Virus (ASFV) in **whole blood, serum, or plasma** of pigs.

- Based on highly specific monoclonal antibodies targeting the **ASFV p30 protein**
- Detects **active infection in Early & Asymptomatic Stages**
- Suitable for **field, farm, and border-level screening**
- Delivers results in **10–15 minutes**
- **Ideal for** Veterinary officers, DIOs, government recurring farms, breeding farms, small to large commercial farms, and emergency outbreak response units.
- **Zero Lab Infrastructure Needed** - No PCR machine, no electricity dependency - works **anywhere**, even in remote farms.

EASY 4-STEP WORKFLOW

Add 1 drop of sample → Add 2 drops of buffer → Migration → Result (Positive/Negative line visual — intuitive for field users)



SWIRUS PRODUCT SPECIFICATION

SWIRUS RAPID ANTIGEN DETECTION TEST KIT	
PRODUCT CODE	G242415
PRINCIPLE	Sandwich antibody immunoassay (Two mouse monoclonals)
SPECIES	Swine, porcine
SPECIFICITY	95%
SENSITIVITY	93% compared with PCR.
SHELF-LIFE	24 months
STORAGE	2- 30 °C or 2-8 °C

* Validation of ASFV SWIRUS kit was done in Reference Laboratory in Assam Agriculture University (AAU) Guwahati, and National institute NIVEDI, Bangalore.

SWIRUS RAPID TEST KIT COMPONENTS

SWIRUS TEST COMPONENTS		
S.NO	ITEM	QTY
1	ASFV Ag Rapid Test Card	25 pcs
2	Sample buffer, 1ml per bottle	3 bottles
3	Plastic pipettes, 0.5ml	25 pcs
4	Kit instruction,	1 set.

AVAILABLE NOW – READY FOR FIELD DEPLOYMENT

SWIRUS kits are **in production**, validated, and available for state procurements, veterinary deployment, and industry partnerships.

CONTACT

GENEXT GENOMICS PVT. LTD - NAGPUR, INDIA

 www.genextgenomics.com

 chinmayumbarkar@genextgenomics.com ; prachitiwari@genextgenomics.com

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To,
Dr. Dr N N Barman, MVSc PhD,
DAAD Fellow (Germany), DBT Fellow (UK), FNAVS
Professor & Head,
Dept Of Veterinary Microbiology
College of Veterinary Science
Assam Agricultural University
Khanapara Campus, Guwahati
Assam, India

12-09-2025

Subject: Performance evaluation of *SWIRUS – ASFV Rapid Antigen Detection Kit*

Dear Sir,

We are pleased to share the **validation report and certification** of the **SWIRUS Rapid Antigen Detection Kit**, developed by you in collaboration with **GeNext Genomics Pvt. Ltd., Nagpur**, intended for rapid and field-level detection of **African Swine Fever Virus (ASFV)** infection in pigs.

Sl No.	Product Name	Batch No.	Mfg Date	Exp. date
1	<i>SWIRUS – ASFV Rapid Antigen Detection Kit</i>	250601 V	August, 2025	May, 2027
		250602 V	August, 2025	May, 2027
		250603 V	August, 2025	May, 2027

Competitor Assays used

Sl No.	Assay Name	Batch No.	Mfg Date	Exp. date
1	<i>Real-Time PCR assay</i>	Master Mix	-	03/07/2026
		Forward Primer	09/08/2022	-
		Reverse Primer	09/08/2022	-
		Probe	18/10/2022	-

The *SWIRUS– ASFV Rapid Antigen Detection Kit* was compared against Real-Time PCR assay and results were found to be satisfactory and could be used for screening ASFV antigen in pigs at field-level.

DETAILED EVALUATION REPORT

Table1: ASFV positive sample testing

Batch No.	Total nos. of ASFV positive sample tested	Positive observed for ASFV Antigen	Negative observed for ASFV Antigen	% Sensitivity
250601 V	20	20	-	100%
250602 V	20	20	-	
250603 V	20	20	-	

Table2: ASFV Negative sample testing

Batch No.	Total nos. of ASFV Negative sample tested	Negative observed for ASFV Antigen	Positive observed for ASFV Antigen	% Specificity
250601 V	20	20	-	100%
250602 V	20	20	-	
250603 V	20	20	-	

DETAILED EVALUATION REPORT

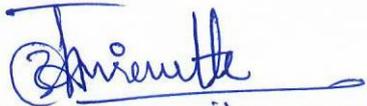
Sl No.	Real-Time PCR Results	<i>SWIRUS–ASFV Rapid Antigen Detection Kit</i>								
		Batch No. 250601 V			Batch No. 250602V			Batch No. 250603V		
		C	T	Result	C	T	Result	C	T	Result
Positive samples in qPCR										
1.	Positive (+ve)	P	P	P	P	P	P	P	P	P
2.	Positive (+ve)	P	P	P	P	P	P	P	P	P
3.	Positive (+ve)	P	P	P	P	P	P	P	P	P
4.	Positive (+ve)	P	P	P	P	P	P	P	P	P
5.	Positive (+ve)	P	P	P	P	P	P	P	P	P
6.	Positive (+ve)	P	P	P	P	P	P	P	P	P
7.	Positive (+ve)	P	P	P	P	P	P	P	P	P
8.	Positive (+ve)	P	P	P	P	P	P	P	P	P
9.	Positive (+ve)	P	P	P	P	P	P	P	P	P
10.	Positive (+ve)	P	P	P	P	P	P	P	P	P
11.	Positive (+ve)	P	P	P	P	P	P	P	P	P
12.	Positive (+ve)	P	P	P	P	P	P	P	P	P
13.	Positive (+ve)	P	P	P	P	P	P	P	P	P
14.	Positive (+ve)	P	P	P	P	P	P	P	P	P
15.	Positive (+ve)	P	P	P	P	P	P	P	P	P
16.	Positive (+ve)	P	P	P	P	P	P	P	P	P
17.	Positive (+ve)	P	P	P	P	P	P	P	P	P
18.	Positive (+ve)	P	P	P	P	P	P	P	P	P
19.	Positive (+ve)	P	P	P	P	P	P	P	P	P
20.	Positive (+ve)	P	P	P	P	P	P	P	P	P



Sl No.	Real-Time PCR Results	<i>SWIRUS-ASFV Rapid Antigen Detection Kit</i>								
		Batch No. 250601 V			Batch No. 250602V			Batch No. 250603V		
		C	T	Result	C	T	Result	C	T	Result
Negative samples in qPCR										
1.	Negative(-ve)	P	N	N	P	N	N	P	N	N
2.	Negative(-ve)	P	N	N	P	N	N	P	N	N
3.	Negative(-ve)	P	N	N	P	N	N	P	N	N
4.	Negative(-ve)	P	N	N	P	N	N	P	N	N
5.	Negative(-ve)	P	N	N	P	N	N	P	N	N
6.	Negative(-ve)	P	N	N	P	N	N	P	N	N
7.	Negative(-ve)	P	N	N	P	N	N	P	N	N
8.	Negative(-ve)	P	N	N	P	N	N	P	N	N
9.	Negative(-ve)	P	N	N	P	N	N	P	N	N
10.	Negative(-ve)	P	N	N	P	N	N	P	N	N
11.	Negative(-ve)	P	N	N	P	N	N	P	N	N
12.	Negative(-ve)	P	N	N	P	N	N	P	N	N
13.	Negative(-ve)	P	N	N	P	N	N	P	N	N
14.	Negative(-ve)	P	N	N	P	N	N	P	N	N
15.	Negative(-ve)	P	N	N	P	N	N	P	N	N
16.	Negative(-ve)	P	N	N	P	N	N	P	N	N
17.	Negative(-ve)	P	N	N	P	N	N	P	N	N
18.	Negative(-ve)	P	N	N	P	N	N	P	N	N
19.	Negative(-ve)	P	N	N	P	N	N	P	N	N
20.	Negative(-ve)	P	N	N	P	N	N	P	N	N

P=Positive, N= Negative

Note: It is same 20 positive and 20 negative samples that were used to test three batches (250601V, 250602V, 250603V) of LFA


Dr. Jagadish Hiremath, MVSc., Ph.D.
 Principal Scientist
 ICAR - National Institute of Veterinary
 Epidemiology and Disease Informatics
 (Govt. of India)
 Yelahanka, Bengaluru - 560 064



DEPARTMENT OF VETERINARY MICROBIOLOGY
College of Veterinary Science, Assam Agricultural University
Khanapara Campus, Guwahati-781 022



No. AAU/ CVSc /VMC/F-22A /2025-26/209

Dated: 01.08.2025

To

The Management

Paramcare Life Sciences Pvt. Ltd.

G/F12/13, Evershin-2, Survey No. 307/3/1

Balitha N.H No 48, Vapi, Valsad

Gujarat-396191

Subject: **Performance evaluation of SWIRUS – ASFV Rapid Antigen Detection Kit**

Dear Sir/Madam,

We are pleased to share the **validation report and certification** of the **SWIRUS Rapid Antigen Detection Kit**, Manufactured by Paramcare Life Sciences Pvt. Ltd. Gujarat. SWIRUS is developed jointly by **Assam Agricultural University (AAU), Guwahati** and **GeNext Genomics Pvt. Ltd., Nagpur**, intended for rapid and field-level detection of **African Swine Fever Virus (ASFV)** infection in pigs.

SI No.	Product Name	Batch No.	Mfg Date	Exp. date
1	<i>SWIRUS – ASFV Rapid Antigen Detection Kit</i>	PASF250501V	Jan 2025	Dec 2026
		PASF250502V	Jan 2025	Dec 2026
		PASF250503V	Jan 2025	Dec 2026

Competitor Assays used

SI No.	Assay Name	Batch No.	Mfg Date	Exp. date
1	<i>Real-Time PCR assay</i>	Master Mix-64615054	-	03/07/2026
		Forward Primer - 467758948	09/08/2022	-
		Reverse Primer - 467758948	09/08/2022	-
		Probe - 467996135	18/10/2022	-

Negative samples in qPCR

SI No.	Real-Time PCR Results	<i>SWIRUS– ASFV Rapid Antigen Detection Kit</i>								
		Batch No. PASF250501V			Batch No. PASF250502V			Batch No. PASF250503V		
		C	T	Result	C	T	Result	C	T	Result
101.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
102.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
103.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
104.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
105.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
106.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
107.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
108.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
109.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
110.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
111.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
112.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
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114.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
115.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
116.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
117.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
118.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
119.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
120.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
121.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
122.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
123.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
124.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
125.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
126.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
127.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
128.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
129.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
130.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
131.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
132.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
133.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
134.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
135.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
136.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
137.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
138.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
139.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
140.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve

186.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
187.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
188.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
189.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
190.	Negative (-ve)	+ve	-ve	ve	+ve	-ve	ve	+ve	-ve	ve
191.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
192.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
193.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
194.	Negative (-ve)	+ve	-ve	ve	+ve	-ve	ve	+ve	-ve	ve
195.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
196.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
197.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
198.	Negative (-ve)	+ve	-ve	ve	+ve	-ve	ve	+ve	-ve	ve
199.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve
200.	Negative (-ve)	+ve	-ve	-ve	+ve	-ve	-ve	+ve	-ve	-ve


01.08.2025

(Signature with Official Seal)

Dr. N.N Barman

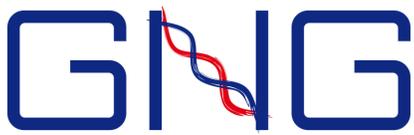
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GeNext Genomics Pvt. Ltd.

RAPID DIAGNOSIS OF ASF VIRUS INFECTION

AFRICAN SWINE FEVER VIRUS DETECTION KIT



"INDIA'S FIRST"



QUICK RESULTS

Delivers test outcomes
in under 10-15 minutes
for immediate action



HIGH SENSITIVITY

Detects even low viral
loads to ensure
accurate results



COST EFFECTIVE

Affordable solution ideal
for wide-scale screening
and surveillance



USER- FRIENDLY

Easy-to-use format,
requires minimal training



WE CARE FOR YOUR ANIMAL'S HEALTH

Our kits help detect diseases early, so your
animals stay safe and healthy.

Protect your livestock with fast, accurate, and
affordable testing.