TEST REPORT

BIOD Co., Ltd
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1. Client information

Name	NAEWOIKOREA	**Representative**	Yang Chul Ho
Address	Room 501, W-City, 9-22, Pangyo-ro 255beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea		
Date of Receipt	Feb. 9. 2023	**Date of Complete**	Mar. 7. 2023

2. Test Sample: NWK-A-FV

3. Test results

Item	Unit	Sample	Result	Test Method
Antiviral test (Avian influenza virus)	Log reduction	100%	2.25	ASTM E1052-11
		20%	2.25	
		10%	2.13	
		1%	1.75	
		0.1%	1.75	
		0.01%	0.25	

1) Testing Environment
- Sample Conc.: 100%, 20%, 10%, 1%, 0.1%, 0.01%
- Reaction time / Temp.: 2 hours / (22 ± 1) ℃
- Virus: Avian influenza virus (H9N2, 01310)

4. Use of Report: For the antiviral efficacy against avian influenza virus

Attachment: Test result

Notice 1. The test results of this report only limited in the sample and sample name presented by the client and do not guarantee the all products of the client.

2. This test report should be used only within the purpose of its defined usage and also shouldn't be used for public relation, advertisement and suit without the Jeonbuk National University's written approval.

Mar. 7. 2023

BIOD

TEST RESULTS

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1. Test Name: Antiviral efficacy test for avian influenza virus

2. Test Facility

Name	BIOD		**President**	Hyung-kwan Jang	
Address	79, Gobong-ro, Iksan-si, Jeollabuk-do, Republic of Korea				
Test Manager	Min Kang	**Affiliation**	BIOD	**Position**	**Representative**
TEL	+82-63-850-0690	**E-mail**	minkang@jbnu.ac.kr		

3. Test Materials

Name	NWK-A-FV	**Manufacturer**	NAE WOI KOREA	**License No.**	-
Ingredient Name				**Content(g)**	
Disinfectant derived from natural products				-	
Formulation	Liquid for external use		**Properties**	White color liquid	

4. Diseases and pathogens for Test

No.	Disease	Pathogen	Strain	Distribution agency
1	Avian influenza	Avian influenza virus	H9N2, 01310	Korea Veterinary Culture Collection

5. Test Method: ASTM E1052-11
(Standard Test Method to Assess the Activity of Microbicides against Viruses in Suspension. 2011)

6. Result: TEST RESULT 3p

7. Overall Opinion: As a result of the antiviral efficacy test for avian influenza virus by NWK-A-FV, it showed a virus reduction of Log 0.25, 1.75, 1.75, 2.13, 2.25, 2.25 for concentrations of 0.01%, 0.1%, 1%, 10%, 20%, 100% in a reaction time of 2 hours.

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[Test Results]

No.	Test Environment		Conc.	Virus Titer (Log $TCID_{50}$/ml)	Virus Reduction (Log $TCID_{50}$/ml)	Virus Reduction Rate(%)	Remark
1	Control	Negative control	-	-	-	-	-
2		Sample control (Toxicity confirm)	100%	Toxic	Toxic	Toxic	Not suitable
3			10%	-	-	-	-
4			1%	-	-	-	-
5		Neutralization liquid control	-	-	-	-	-
6		Positive control (Pathogen control)	-	5.88	-	-	-
7	Test group 1		100%	3.63	2.25	99.44	-
8	Test group 2		20%	3.63	2.25	99.44	-
9	Test group 3		10%	3.75	2.13	99.28	-
10	Test group 4		1%	4.13	1.75	98.22	-
11	Test group 5		0.1%	4.13	1.75	98.22	-
12	Test group 6		0.01%	5.63	0.25	43.77	-

1) Test Environment
- Sample Conc.: 100%, 20%, 10%, 1%, 0.1%, 0.01%
- Reaction time / Temp.: 2 hours. / (22 ± 2) ℃
- Virus: Avian influenza virus (H9N2, 01310)