

คณะเทคนิคการแพทย์ มหาวิทยาลัยมหิดล



โครงการงานบริการทางห้องปฏิบัติการไวรัสวิทยา ศูนย์วิจัยพัฒนานวัตกรรม คณะเทคนิคการแพทย์ มหาวิทยาลัยมหิตล Virology Laboratory Services, Center for Research and Innovation, Faculty of Medical Technology, Mahidol University 999 Phutthamonthon 4 Rd, Salaya, Phutthamonthon, Nakhon Pathom 73170, Thailand. Tel 02 441 4371-5 Ext. 2605

Test report

Virucidal activity of an "Natural AirFresh" on inanimate, nonporous environmental surfaces

Summary of the results

Test product

Natural AirFresh

Manufacturer

AF INNOVATION CO., LTD.

377/22 One Building 3rd Fl., Khlong Lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand

Method

Virucidal activity of Natural AirFresh for use on inanimate,

nonporous environmental surfaces

Test virus

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

Test area volume

Acrylic box (26 cm × 40 cm × 26 cm)

Exposure time

4 hours

Testing facility

Virology laboratory, Faculty of Medical Technology,

Mahidol University, Thailand

Efficacy result

Natural AirFresh showed the virucidal activity of 0.8 log₁₀ or 85.73%

reduction in titer of SARS-CoV-2 for the exposure time of 4 hours

under the test condition of this study protocol.

Test virus	Exposure time	Titer of virus control (TCID50/100 µl)	Titer of virus after disinfection by Natural AirFresh (TCID50/100 µl)	Log ₁₀ reduction of virus titer in average from 3 experiments	% reduction of virus titer in average from 3 experiments
SARS-CoV-2	4 hours	105.1	104.2	0.8	85.73%

Study completion date

8 July 2022

Test performed by

Jaroneo P.

(Miss Jarunee Prasertsopon)

det 62.

(Asst. Prof. Dr. Hatairat Lerdsamran)



โครงการงานบริการทางท้องปฏิบัติการไวรัสวิทยา ศูนย์วิจัยพัฒนานวัตกรรม คณะเพคนิคการแพทย์ มหาวิทยาลัยมหิดล Virology Laboratory Services, Center for Research and Innovation, Faculty of Medical Technology, Mahidol University 999 Phutthamonthon 4 Rd, Salaya, Phutthamonthon, Nakhon Pathom 73170, Thailand. Tel 02 441 4371-5 Ext. 2605

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Summary of the results

Test product Natural AirFresh

Manufacturer AF INNOVATION CO., LTD.

377/22 One Building 3rd Fl., Khlong Lamchiak Rd., Nuanchan, Buengkum, Bangkok 10230, Thailand

Method Virucidal activity of Natural AirFresh for use on inanimate,

nonporous environmental surfaces

Test virus Influenza A/H1N1 virus

Test area volume Acrylic box (35 cm × 45 cm × 35 cm)

Exposure time 1 hour

Testing facility Virology laboratory, Faculty of Medical Technology,

Mahidol University, Thailand

Efficacy result Natural AirFresh showed the virucidal activity of 1.0 log₁₀ or 88.65%

reduction in titer of influenza A/H1N1 virus for the exposure time of

I hour under the test condition of this study protocol.

Test virus	Exposure time	Titer of virus control (TCID50/100 µl)	Titer of virus after disinfection by Natural AirFresh (TCID50/100 µI)	Log ₁₀ reduction of virus titer in average from 3 experiments	% reduction of virus titer in average from 3 experiments
Influenza A/H1N1 virus	1 hour	105.6	104.6	1.0	88.65%

Study completion date

8 April 2022

Test performed by

Jornee P.

(Miss Jarunee Prasertsopon)

224 (12.

(Asst. Prof. Dr. Hatairat Lerdsamran)



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Test report

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Summary of the results

Test product Natural AirFresh

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Method Virucidal activity of Natural AirFresh for use on inanimate,

nonporous environmental surfaces

Test virus Influenza A/H1N1 virus

Test area volume Acrylic box $(35 \text{ cm} \times 45 \text{ cm} \times 35 \text{ cm})$

Exposure time 4 hours

Testing facility Virology laboratory, Faculty of Medical Technology,

Mahidol University, Thailand

Efficacy result Natural AirFresh showed the virucidal activity of 3.8 log₁₀ or 99.98%

reduction in titer of influenza A/H1N1 virus for the exposure time of

4 hours under the test condition of this study protocol.

Test virus	Exposure time	Titer of virus control (TCID50/100 µl)	Titer of virus after disinfection by Natural AirFresh (TCID50/100 µl)	Log ₁₀ reduction of virus titer in average from 3 experiments	% reduction of virus titer in average from 3 experiments
Influenza A/H1N1 virus	4 hours	10 ^{4.8}	101.1	3.8	99.98%

Study completion date 25 March 2022

Test performed by

(Asst. Prof. Dr. Hatairat Lerdsamran)