

CERTIFICATE OF INVESTIGATION STUDY

STUDY OF VERFICATION OF THE EFFICIENCY OF ZIAINO ON SARS-COV2 BY NO GLP VIRAL CLEARANCE STUDY (FIO)

Study number: 1174/01c2

Study report for:

Sponsor: Panasonic Ecology System Co Ltd

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Submitted by:

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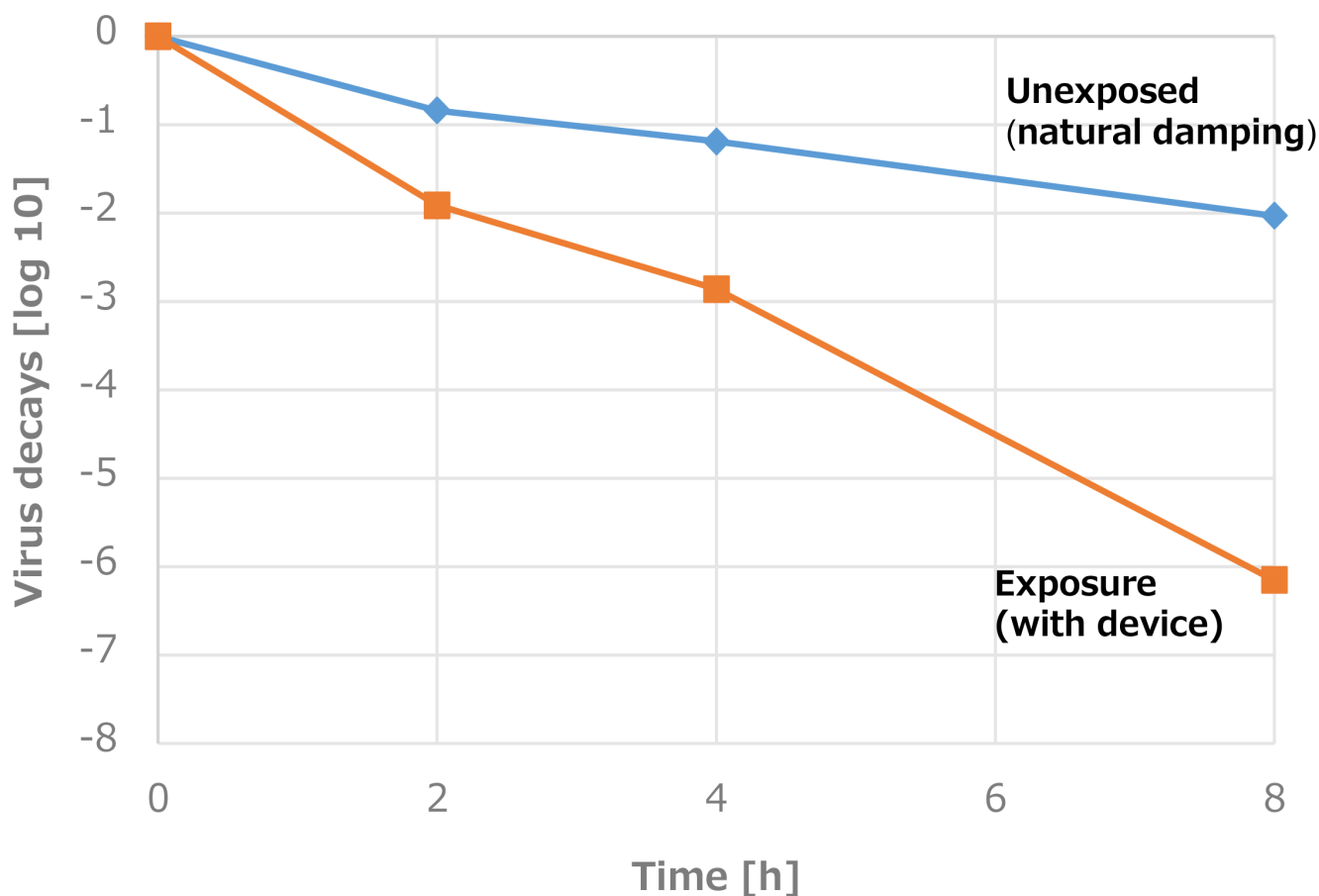
In Panasonic conditions of use:

An inactivation and reduction titer of more 4 Log (99.99%) of Sars-Cov-2 in 8 hours was demonstrated in a 6.7m³ area

Evidence of the suppressive effect on novel coronavirus by the active chlorine component of volatilized aqueous hypochlorous acid solution from ziaino

Results

Time	2H	4H	8H
Suppressive Effect	91.48%	97.86%	>99.99%



The novel coronavirus, which was attached by the active chlorine component of hypochlorous acid aqueous solution volatilized from the verification device, demonstrated a suppressive effect of more than 99.99% in 8 hours in a space of 6.7 m³.

Evidence of the suppressive effect on novel coronavirus by the active chlorine component of volatilized aqueous hypochlorous acid solution from ziaino

■ Purpose

To verify the suppressive effect on novel coronavirus by the active chlorine component of hypochlorous acid aqueous solution volatilized from ziaino

■ Test Facility

Texcell (France) *Report No: 1174/01 c2

■ Condition

Verification device: Ziaino (F-JML30)

- The rotary sterilizing filter is permeated with a hypochlorous acid aqueous solution having a pH of about 8.5 and a concentration of about 10 mg/L
- Active chlorine component is volatilized by applying a constant wind ($3 \text{ m}^3/\text{min}$) to the rotary sterilizing filter.
- Product operation
 - Airflow: Strong
 - Electrolytic Strength: Strong (Electrolysis inside the product)

■ Verification Method

- A gauze coated with the novel coronavirus (SARS-CoV -2) is set in the test space
- Virus infectivity titer is measured to calculate the inhibition rate.
- Exposure time: 2, 4, 8 hours
 - Exposure <Verification device installed>
 - Unexposed <No verification device installed>
- Test space: $6.7 \text{ m}^3 / 222.4 \text{ ft}^3$
 - Exposure ... 6.7 m^3 *No ventilation
 - Unexposed (natural damping) ...in safety cabinet *No ventilation

■ Test Space

