

Translated from Japanese

## **Confirming the inactivating effect of the actual coronavirus SARS-CoV-2 (Covid-19) by BioSure Model SG-OzSpray Professional Ozonated Water Spray Bottle**

Source: Kyodo News, 18 January 2021

### **INTRODUCTION:**

This was a joint research project with the Nara Medical University, in Kashihara, Nara, Japan Professor Juichi Yano, Associate Professor Ryuichi Nakano and MBT Consortium Chairman Yuji Hosoi.

This research confirmed the effect of inactivating the actual coronavirus SARS-CoV-2 in ozonated water generated by electrolyzing plain tap water using the BioSure Model SG-OzSpray Professional. The tests and confirmation of the results were carried out in the biosafety level 3 (BSL3) experimental facility at the Nara Medical University under appropriate pathogen containment measures.

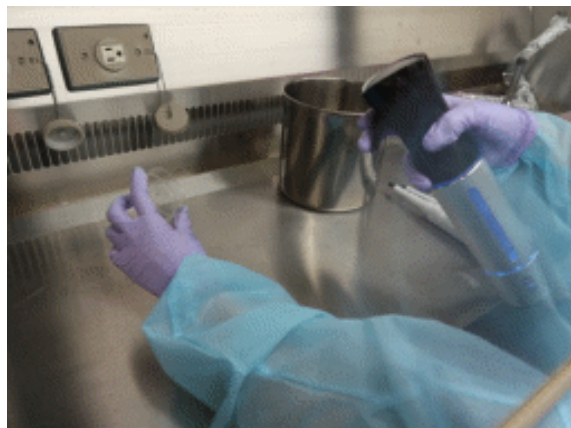
### **SUMMARY:**

The ozonated water produced by the SG-OzSpray Professional Ozonated Water Spray Bottle was proven to quickly inactivate the new coronavirus SARS-CoV-2 by a factor greater than 99.998%.

### **TEST VIRUS: ACTUAL SARS-COV-2 CORONAVIRUS**

### **METHODOLOGY:**

Ozonated water generated by the BioSure SG-OzSpray Professional Ozonated Water Spray Bottle was sprayed on a petri dish smeared with 20 µl of virus solution from a distance of 10 to 20 cm with a contact time of 5 minutes.



After the reaction for 5 minutes, the reaction was stopped in SCDLP medium containing sodium thiosulfate, and the virus infectivity titer (PFU / mL) was measured 3 times each by the plaque method using the recovery solution.

The rate of decrease was calculated from the logarithmic decrease as follows.

$$\text{Decrease rate} = (1 - 10^{-\text{logarithm reduction value}}) \times 100\%$$

## **RESULTS:**

By spraying the ozone water onto the new coronavirus of  $9.67 \times 10^6$  PFU / ml. With the BioSure SG-OzSpray Professional Ozonated Water Spray Bottle with just 3 sprays, the infectious titer decreased to the detection limit of  $<1.50 \times 10^2$  PFU / ml, **which is a decrease rate > 99.998%.**

	Pre-test	Post-test	Decrease rate after test
Control (without doing anything)	9,670,000	9,500,000	<b>1.758%</b>
Multi-Purpose Ozone Bottle	—	<b>2,400</b>	<b>99.974%</b>
Professional Ozone Spray Bottle	—	<b>&lt;150</b>	<b>&gt;99.998%</b>

## **CONCLUSION:**

From the test results as shown in the table above, it was found that the ozone water produced by the SG-OzSpray Professional Ozonated Water Spray Bottle quickly inactivates the new coronavirus SARS-CoV-2 by a factor greater than 99.998%.