

*Disinfectant by Ozone Power*

# ALTANT®

*Attack and Kill any Infectious Virus*



## «Unique Product»

- We have been successful in holding the ozone gas keeping strong oxidizing power into the special liquid by our unique technology.
- Because of the handy bottle with spray nozzle, you can easily handle and spray it anywhere.
- After you spray the liquid gas on the area, the liquid volatilizes in 20 minutes and it will be dry.

## «Strong and Excellent Features»

### *1, Strong Bactericidal Power*

Due to the ozone with strong oxidizing power, "ALTANT®" kills various infectious viruses such as Norovirus, Coronavirus, hepatitis viruses, etc.

### *2. Harmlessness*

The incumbent disinfectant products with strong power attacks human body generally; however, "ALTANT®" is far less harmful.

### *3, Deodorization*

Due to the ozone with strong oxidizing power, "ALTANT®" kills various bacteria which causes putrid odor.

### *4, Easy Handling*

Due to handy bottle with spray nozzle, you can easily treat and handle it, and use it wherever you want

## «Expected Usage»

- You will be in the spot where you may have risks to be infected, such as inside of hospital, hotel, ambulance, train, airplane, etc., or in the country or area where you may be in serious hygienic environmental condition.
- You need to protect plants, vegetables or fruits against any pest.
- You need to protect your pets or livestock against any bacteria.

## «Patent Status»

PATENDED: Japan / PATEND PENDING: USA, EU, Korea, China, etc

## 《Test Results》

### 【Safety Test for Human Body】 (Evaluated by JFRF: Japan Food Research Laboratories/ Others.)

We have proved the safety for the human body by Oral Mucous Membrane Irritation Test, Acute Oral Toxicity Test, Eye Primary Irritation Test, Mutagenicity Test, Acute inhalation Toxicity Test.

### 【Viral Inactivation Test】 (Evaluated by JFRF)

We have evaluated the Viral Infectivity, which is counted the number of active virus after the virus is immersed in “ALTANT®”. It shows “ALTANT®” is effective to make the virus inactive.

The actual data is as follows; (Norovirus can be replaced with Feline calicivirus in such evaluations.)

Sample virus	Log TCID50/mL		
	At the beginning	5 minutes later	15minutes later
Feline calicivirus	7.6	<4.5	<4.5

TCID<sub>50</sub> : median tissue culture infective dose; that amount of a pathogenic agent that will produce pathological change in 50% of cell cultures inoculated. Expressed as TCID50/ml. <4.5 : No detection

### 【Bactericidal Effect Test】 (Evaluated by JFRF)

It shows that most bacteria can be killed and be soon non-active by “ALTANT®”.

Sample bacteria	The number of active bacteria (/mL)			
	At the beginning	5 M later	15 M later	60 M later
Bacillus subtilis	$7.3 \times 10^5$	$3.1 \times 10^5$	500	<100
Escherichia Coli	$7.1 \times 10^5$	<10	<10	No data
Klebsiella pneumoniae	$9.5 \times 10^5$	<10	<10	No data
Pseudomonas aeruginosa	$6.2 \times 10^5$	<10	<10	No data
Staphylococcus aureus	$8.1 \times 10^5$	<10	<10	No data
Pneumococcus	$8.7 \times 10^5$	400	<100	No data
Candida	$6.9 \times 10^5$	$1.9 \times 10^5$	<10	No data

<10 & <100: No detection

We have developed “ALTANT®” successfully with a great technical support with Foundation for Biomedical Research and Innovation (FBRI) in Kobe, Japan.

“ALTANT®” are registered trademark of E-TECH CO.,LTD.

#### 【Sales Representative】

#### 【Manufacturer】

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