

New disinfectant to suppress pandemic early

Due to the development of transportation systems and population concentration in cities, there is an increased risk of emerging infectious diseases caused by unknown viruses and drug-resistant bacteria, including Ebola hemorrhagic fever.

In order to prevent the spread of infectious diseases, cutting off the infection route is the center of countermeasures.

However, infections often spread despite standard and contact prevention measures.

In the 2014 Ebola outbreak, nearly 900 healthcare workers were infected and more than 500 people died. As a cause, the risk of infection when taking off protective clothing was pointed out. Currently, it is recommended to disinfect potentially contaminated areas with a medical disinfectant before removing protective clothing.

However, until now, there was no suitable disinfectant that satisfies the two conditions of having a strong bactericidal effect against pathogens and being safe and less irritating to the people who handle them.

We developed the world's first ozone disinfectant that satisfies both of these conditions, and obtained patents in Japan, the United States, the EU and other countries.

As features

① Strong disinfection effect.

Bacillus subtilis spores are highly resistant to sterilization, and even glutaraldehyde, a medical disinfectant, requires 60 minutes to kill, whereas our disinfectants are more potent and kill within **5 minutes**. It also inactivates feline calicivirus within **15 seconds**.

< By Kitasato Research Center for Environmental Science >

② Safety

In various safety tests, including skin irritation, no harmful effects that were particularly problematic on the human body were found.

< By Japan Food Research Laboratories >

③ Easy to use and environmentally safe.

It does not cause corrosion or discoloration and can be used for a wide range of materials. Since it is volatile and does not remain after **volatile in 10 to 20 minutes**, no post-treatment such as wiping is required. It does not require dilution adjustments such as sodium hypochlorite and glutaraldehyde for commonly used disinfectants, and can be stored for **3 years**.

This ozone disinfectant can be used to prevent the spread of drug-resistant bacteria in hospitals, geriatric facilities, and ambulances as well as measures against emerging infectious diseases as mentioned above.

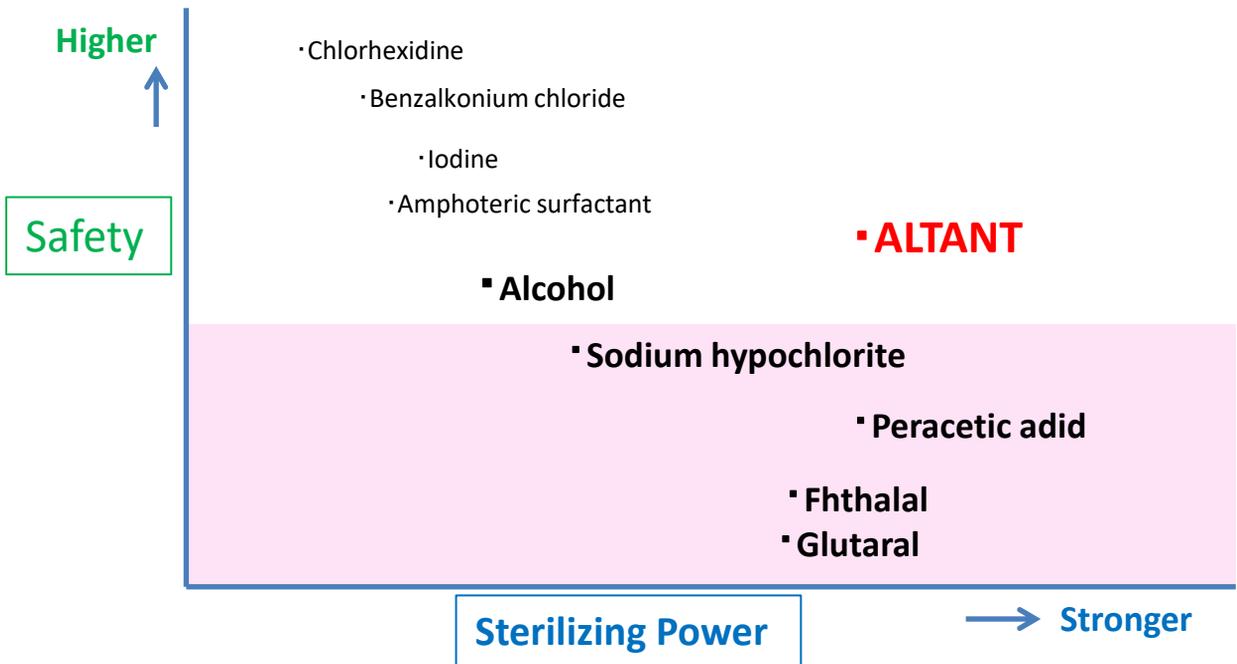
Even in places where electricity and water are not available, it can be used immediately, so it can be an important means of preventing infectious diseases from spreading in evacuation shelters.

Because it is hypoallergenic, we are considering the development of an effective hand sanitizer for viruses with strong antiseptic resistance, such as norovirus, rotavirus, and adenovirus.

Currently, joint research with the National Institute of Infectious Diseases is ongoing, but a paper will be published later this year. We will continue to make efforts to contribute to countermeasures against infectious diseases.

The most powerful bactericidal action
&
Hypoallergenic at the same level as alcohol

Comparison with other disinfectants



Usability Comparison

	ALTANT	Fththalal	Glutaral	Peracetic acid	Soolium hypochlorite
Volatility	High	High	Low	Low	High
Usability	No wiping required	Sufficient washing is required after use	←	←	←
How to use	Used as undiluted solution	←	Mix and use	←	Use diluted
Side effect & Usage notes	Weak irritation to the skin	Strong toxicity to human body	←	←	←