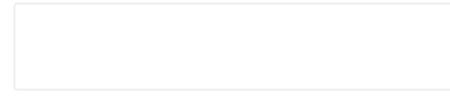


# ZOONO<sup>®</sup>



# Coronavirus & Protecting Your Family

## IS ZOONO EFFECTIVE AGAINST CORONAVIRUS?

Zoono Group Limited (ASX:ZNO) is pleased to advise that it has received the report for the laboratory tests undertaken against COVID-19 surrogate. The results show that Zoono's Z-71 Microbe Shield (the same Zoono technology used in Zoono hand sanitiser) is > 99.99% effective against feline coronavirus (the recognised surrogate for COVID-19).

COVID-19 has become a global concern, in particular as it has been shown to survive on surfaces for up to 9 days.

Zoono products have been successfully tested against a variety of pathogens for up to 30 days on surfaces and 24 hours on hands.

Whilst Zoono had been previously tested against bovine coronavirus (the nominated surrogate for MERS), this latest strain required new testing.

Two separate tests were completed to EN Standard 14476:2013+A2:2019. The first was against Vaccinia, sometimes referred to as the 'mother ship' of double enveloped viruses (that are particularly hard to inactivate); with the subsequent test against the nominated (and globally accepted) surrogate for COVID-19, feline coronavirus.

EN14476 is the European Standard that applies to products within the medical area including hygienic hand rubs, hygienic hand wash, instrument disinfection by immersion, surface disinfection by wiping, spraying, flooding or other means.

## RESULTS:

The test against Vaccinia confirmed an efficacy of > 4Log (greater than 99.99% efficacy) for Zoono Z-71 Microbe Shield (the same Zoono technology used in Zoono Hand Sanitiser).

The second test against the COVID-19 surrogate, feline coronavirus, confirmed efficacy at 4.33Log (greater than 99.99% efficacy).

The members of the family Coronaviridae are enveloped and have positive sense RNA genome. Coronaviruses have a distinct morphology with an outer 'corona' of embedded envelope spikes. These viruses cause a broad spectrum of animal and human disease and are particularly difficult to inactivate.

Zoono is very pleased with the results which further demonstrates the ability of the Zoono technology to be part of the solution to help prevent and protect against the spread of the COVID19 Virus.

## **WHAT IS CORONAVIRUS?**

Coronaviruses (CoV) are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV). A novel coronavirus (nCoV) is a new strain that has not been previously identified in humans.

Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS-CoV was transmitted from civet cats to humans and MERS-CoV from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans.

Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In more severe cases, infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death.

Standard recommendations to prevent infection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.

## **WHAT IS 2019 NOVEL CORONAVIRUS (COVID-19)?**

The 2019 Novel Coronavirus (COVID-19) is a new strain of coronavirus that was first identified during an investigation into an outbreak in Wuhan, China. It's important to note that how easily a virus spreads person-to-person can vary. Some viruses are highly contagious, while other viruses are less so. Investigations are ongoing to better understand the transmissibility, severity, and other features associated with COVID-19, but there are indications that person-to-person spread is occurring.

## **HOW LONG DOES CORONAVIRUS REMAIN TO SURFACES?**

According to the [Journal of Hospital Infection](#) research of different coronaviruses showed that the viruses can stay active and remain infectious of room temperature on surfaces for up to nine days.

## IS ZOONO EFFECTIVE AGAINST CORONAVIRUS COVID-19?

Zoono is confident that it is extremely well positioned to be part of the solution to both coronavirus and other new virus threats. The Zoono technology, particularly its longevity and mode of action, delivers an ideal solution.

Our Microbe Shield Surface Sanitiser was successfully tested in 2014 against bovine coronavirus (a surrogate recognised by the World Health Organization for other members of the coronaviridae family, including the MERS virus (CoV-MERS). Test results confirmed a 99.99% efficacy in five minutes.

Both our Microbe Shield Surface Sanitiser and Hand Sanitiser products were recently sent to a German laboratory for testing against the latest Chinese strain of the coronavirus (COVID-19). This strain of the coronavirus has not previously been available for testing. Given the successful test results in 2014 and since, Zoono is very confident that both products will achieve similar efficacy, as Zoono brands contain the same active technology. Results from testing against the current coronavirus strain are expected in the next four to six weeks.