

## LifeClean Disinfectant Reaches the Highest Standard of Virucidal Activity – Including Against COVID-19

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**LifeClean International AB ("LifeClean International" or "the Company") has recently completed a new significant third-party testing process with successful result, achieving the EN 14476:2013+A2:2019 requirements for virucidal activity.**

The tests were conducted by the reputable and independent laboratory *Dr. Brill + Partner GMBH*. The tests evaluated the Company's product *LifeClean Disinfectant* against the *EN 14476:2013+A2:2019* standard, considered the most difficult standard of virucidal activity to attain within the medical field, as well as against specified requirements imposed by the independent German commission *Association for Applied Hygiene ("VAH")*.

Four virus tests were carried out in two separate rounds. LifeClean's product *LifeClean Disinfectant* passed the test fully at concentrations as low as 50 PPM with a contact time of 1 minute; *LifeClean Disinfectant* is usually supplied in 200 PPM concentration with a recommended contact time of 2 minutes. The product thus satisfies the requirements for virucidal activity in accordance with *EN 14476:2013+A2:2019* and the current requirements on VAH Certification of Chemical Disinfection Procedures. A VAH certification is an important quality label and is significant with regard to the Company's strategy for the German health care segment.

The evaluation of virucidal activity in accordance with standards entails that products are tested using an established protocol. In this case, the evaluation was conducted through the inactivation of *adenovirus*, *murine norovirus*, *poliovirus type 1* and *polyomavirus SV40*. These viruses are non-enveloped and considerably more difficult to inactivate than enveloped viruses such as *coronaviruses*. The demonstration of virucidal activity on non-enveloped viruses is therefore considered an indication of efficacy against enveloped viruses as well. Dr. Jochen Steinman thus notes the following in his expert opinion:

*"Therefore, after successful experiments with the above mentioned non-enveloped viruses the test product is also effective against the so-called blood-borne viruses including HBV, HCV and HIV as well as against members of other virus families such as orthomyxoviridae (incl. all human and animal influenza viruses like H5N1 and H1N1), coronaviridae (like MERS-CoV, SARS-CoV-1 and SARS-CoV-2) and filoviridae including Ebola virus"*

### **The CEO comments:**

LifeClean International is a research-based company. Hence, it is of existential importance for us to prove our effectiveness so that our customers and ambassadors can be confident that *LifeClean Disinfectant* ensures protection. It is particularly gratifying that this tough standard achieved the *EN 14476:2013+A2:2019* requirements with a lower PPM and a shorter time of contact than is usual with our standard product.

Proven efficacy against the current coronavirus is in short supply for many producers and distributors but in great demand on the market. During the ongoing pandemic, we would like nothing more than having our product specifically tested and verified against COVID-19. We will return to this issue soon. Until then, tests carried out against the toughest available standard is the best possible measure of efficacy that can be obtained.

Demonstrated efficacy against the virus species used in *EN 14476:2013+A2:2019* ensures efficacy against *SARS-CoV-1* and *SARS-CoV-2* as well (i.e., the coronaviruses currently at issue).

### **For more information, please contact:**

Thomas Lööw, CEO, LifeClean International  
AB E-mail: [thomas.loow@lifeclean.se](mailto:thomas.loow@lifeclean.se)  
Telephone: +46 70 795 59 35

### **About LifeClean International:**

LifeClean International was founded in 2012 in conjunction with a research collaboration between the Company's founders and researchers at Örebro University Hospital. The Company conducts research, production, marketing and sales of disinfectant products. Together with leading researchers, the Company has developed a patented surface disinfectant that eliminates spores, fungi, biofilm, bacteria and viruses, prevents emergence of antimicrobial resistance and is less harmful to humans and the environment. LifeClean International has a unique,

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patented and more environment-friendly chemical technology that is scalable in several areas. *For more information, please visit LifeClean International's website, [www.lifeclean.se](http://www.lifeclean.se)*

Certified adviser for the Company is Eminova Fondkommission AB | +468-684 211 10 | [adviser@eminova.se](mailto:adviser@eminova.se)

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Kärrastrandsvägen 124B, 451 76 Uddevalla, Sweden, Reg.no: 556897-