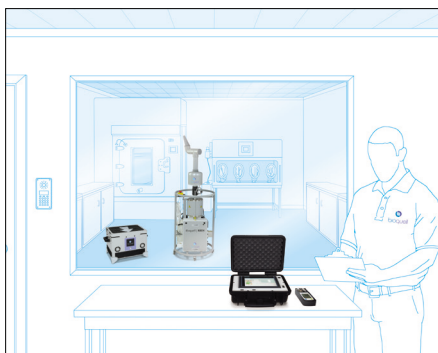


Bioquell's Rapid Bio-decontamination Service (RBDS) is Effective Against Coronavirus

Fully inclusive and managed RBDS uses Bioquell's 35% Hydrogen Peroxide Vapour solution to eliminate pathogens, providing a 6-log sporicidal kill

With the number of COVID-19 cases rising globally, Bioquell (bioquell.com) – a leading manufacturer of high-performance bio-decontamination systems – is offering a proven solution to help eradicate coronavirus in a range of healthcare, life sciences and pharmaceutical environments, such as isolation rooms and public spaces.

Utilising the company's scientifically proven 35% Hydrogen Peroxide Vapour technology, Bioquell's Rapid Bio-decontamination Service (RBDS) is helping to provide microbiologically clean surfaces and spaces for patients and staff.



Surface contamination has been implicated in the transmission of certain viruses, including coronavirus, and surface de-contamination is an effective measure to interrupt the spread of these agents.

A study on the virucidal efficacy of Bioquell's Hydrogen Peroxide Vapour was published in the April 2014 issue of *The Journal of Hospital Infection*. The study evaluated the *in-vitro* efficacy of Bioquell Hydrogen Peroxide Vapour for the inactivation of a number of structurally distinct viruses that could impact the healthcare, veterinary and public sectors, including feline calicivirus (FCV); human adenovirus

type 1; transmissible gastroenteritis coronavirus of pigs (TGEV; a severe acute respiratory syndrome coronavirus (SARS-CoV surrogate)); avian influenza virus (AIV); and swine influenza virus (SwIV).

The findings showed that after exposure to Bioquell's Hydrogen Peroxide Vapour, no viable viruses were identified.

The technology also has been evaluated by the UK Government's Biosafety Group at the Centre for Emergency Preparedness and Response, Porton Down, using the non-enveloped virus surrogate MS2 phage, with full inactivation achieved.

Respiratory viruses can contaminate and survive for long periods on environmental surfaces. Effective disinfection is essential for stopping transmission from the environment. However, this is not always achieved by conventional cleaning and disinfection techniques.

Bioquell's Hydrogen Peroxide Vapour is a vapour-phase disinfection method that is virucidal on structurally distinct viruses dried on surfaces.

It achieves a level of efficacy unmatched by standard cleaning practices and other disinfection technologies. It is uniform across the entire target area and not limited to line-of-sight or easy-to-reach spaces.

Bioquell's RBDS can be quickly called upon to eradicate coronavirus from a single area, several locations within a facility or an entire building. Using Bioquell's 35% Hydrogen Peroxide Vapour solution (Bioquell HPV-AQ) can eliminate pathogens, providing a 6-log sporicidal kill.

Through complete coverage of every exposed surface in an enclosed area, the process is residue-free, proven safe on sensitive electronics and shown to kill a wide range of microorganisms



including bacteria, viruses, fungi, spores and more.

Bioquell's RBDS offers the flexibility to retain or recover the microbial integrity of critical areas with every deployment including planning, co-ordination, setup, equipment, and cycle validation and verification. It provides a complete final report confirming a 6-log kill of the spaces and surfaces that have been treated with the use of biological and chemical indicators.

For further information on Bioquell's RBDS visit <https://www.bioquell.com/healthcare/systems-and-services/rapid-bio-decontamination-service-rbds/?lang=en-uk>

REFERENCES

1. S.M. Goyal, Y. Chander, S. Yezli, J.A. Otter. 2014. Evaluating the virucidal efficacy of hydrogen peroxide vapour. *J. Hosp. Infec.* Vol 86, 255-259.
2. T. Pottage, C. Richardson, S. Parks, J.T. Walker, A.M. Bennett. 2009. Evaluation of hydrogen peroxide gaseous disinfection systems to decontaminate viruses. *J. Hosp. Infec.* doi:10. 1016/j.jhin.2009.08.020
3. Van Doremalen et al. 2020. Aerosol and surface stability of HCoV-19 (SARS-CoV-2) compared to SARS-CoV-1. US Government work. medRxiv preprint doi: 10.1101/2020.03.09.20033217

Bioquell Hydrogen Peroxide Vapor is an EPA registered sterilant but is currently not listed on the EPA emerging viral pathogens list. Until Bioquell's hydrogen peroxide sterilant is presented on this list, Bioquell is unable to make a specific claim against SARS-CoV-2 / COVID-19 in the United States. For further information on this position, please contact your Bioquell representative.



YOUR DISASTER RECOVERY PLAN

Bioquell Rapid Bio-Decontamination Service is an all-inclusive emergency response that eliminates even the most aggressive biological contaminants

- Eliminates pathogens on all exposed surfaces
- Scalable from a single room to an entire facility
- Fully managed service decontamination offering
- Broad spectrum and proven efficacy

Find out more at www.bioquell.com or through your Bioquell or Ecolab Representative

