

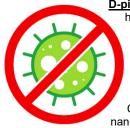


01/03/23 - RE: Updates on Our Industry Leading Infection Control Technologies

Dear Valued coVita Clients,

At coVita we strive to ensure that we utilize the industry leading infection control technologies and practices. The following information is intended to provide you with specifics about our products in relation to the concerns about the Coronavirus (COVID-19 / SARS-COV-2).

UPDATES:



D-pieces[™] Valves: Our D-piece[™] filters have been independently tested for prevention of cross infection. We are happy to announce based on this data Bedfont concluded that bacterial and viral pathogens including (COVID-19 / SARS-COV-2) will effectively be removed by the D-piece™ filter at an efficiency rate of >99% (bacteria) and >97% (viruses).

In the tests carried out on the viral and bacterial filter contained in the D-pieceTM, the virus model used for tests (M2-Coliphage) are similar in size as the smallest human viruses (as small as 24 nanometers in diameter¹), so that they can test the efficiencies of the filters for removing human viruses from air streams. The model virus (M2-Coliphage) is approximately 24-26 nanometers in size¹ in comparison to COVID-19 virus which is approximately 125 nanometers in size.2

D-piece[™]: one-way valve and an infection control filter can be used for a continuous 30 days in conjunction with single-patient-use SteriBreath[™] mouthpieces.

SteriBreath[™] Mouthpieces: The single use SteriBreath[™] mouthpieces are individually wrapped for ease of handling and greater infection control.

Monitor Wipes: The EPA registered hospital disinfectant wipes provided kills 99.9% of bacteria in just 15 seconds and effective in the presence of 5% serum contamination. Effective against: SARS-Related Coronavirus 2 (SARS-CoV-2) (cause of COVID-19) in 4 minutes, Staphylococcus aureus-Multi-Drug Resistant, Staphylococcus aureus-Vancomycin Intermediate Resistant-VISA, Pseudomonas aeruginosa, Burkholderia cepacian, *Hepatitis B Virus [HBV], *Hepatitis C Virus [HCV], *HIV-1 [AIDS Virus]. As standard practice, Bedfont® recommends that the monitors are wiped down with the alcohol-free antibacterial/viral wipes, provided with the monitor, after each breath test. According to the manufacturer, they are effective against the following pathogens.

Additional Information:

Steritouch[®]: The surface of your monitor(s) (NObreath[®], Micro^{+ pro}, ^{baby}, ^{basic}, piCO^{+™} Smokerlyzers[®], Gastro+[™], ToxCO[®]) have an added material known as Steritouch®, an antimicrobial product, offers protection against a range of bacteria including E.coli, MRSA, Salmonella and Legionella, as well as black mold growth, biofilm and fungi³. Statement from Steritouch® manufacturer states "Coronavirus COVID-19 is an enveloped virus, so called because of its fatty outer membrane or 'envelope'. Several of the active substances we use have been successfully tested against other enveloped viruses, such as Influenza, Avian flu, and SARS. It would be reasonable to imply that those same active substances would be effective against COVID-19, but at this stage testing against COVID-19 is not available⁴.

Foaming Hand Sanitizer: The hand sanitizer provided by coVita is alcohol-free and according to the manufacturer, they are effective against the following pathogens including Human Coronavirus (Table 1). There is no information on their effectiveness specifically against COVID-19.

Keep in mind the following common-sense precautions and additional information:

- Do not test ill individuals: If you know or suspect (based on symptoms) that a person that you would like to offer the breath test to ٠ has COVID-19, you should probably avoid the test until they are well. This would generally be advisable for any patients exhibiting cold/flu-like symptoms, not only those with confirmed or suspected COVID-19 infections.
- Stand off to the side for the test: You should not stand in front of a person taking the test, as this would place you directly in the stream of air exiting the breath monitor. Stand off to the side as you administer the test regardless of whether you hold the monitor during the test or you let the test subject hold the monitor.
- Wear gloves and/or sanitize your hands: You can wear gloves to handle the monitor or if you do not wear gloves, be sure to wash your hands thoroughly or sanitize your hands with approved hand sanitizers when handling the monitor after a breath test. Hand washing/sanitizing would probably be a best practice under most circumstances.
- Wipe down the monitor: Do this before (if you do not know whether it was wiped down after the last test) and after each use with an approved sanitizer wipe, but DO NOT SATURATE THE MONITOR WITH EXCESS LIQUID OR ALLOW EXCESS LIQUID TO POOL IN THE SEAMS OF THE MONITOR CASING, AS THIS WILL DAMAGE THE MONITOR AND VOID YOUR WARRANTY.
- Avoid touching face: Avoid touching your eyes, nose, and mouth, particularly prior to washing/sanitizing your hands.

Sincerely,

held Silve-

Daniel M. Sibis Regulatory Affairs

REFERENCES 1. Berkeywaterkb.com. 2020. Is The MS2 – Fr Coliphage Still Known To Be A Good Indicator Of Virus Filtration? Do You Have Tests On Any Other Viruses? – Berkey Knowledge Base. [online] Available at: http://berkeywaterkb.com/is-the-ms2-fr-coliphage-still-known-to-be-a-good-indicator-of-virus-filtration-at-least-one-article-suggests-that-I-might-not-be-do-you-have-tests-n-any-other-viruses?#~-text=The MS2-2 (Trus is 24-26,both referenced on the chart [Accessed 12 June 2020]. 2. Avon-protection.cm. 2020. [Integration Available at: https://www.avericetion.cm/dowinoads/product_brochurus/GR04471-Virus20-7x02/WHTE/SU20PAREP.kptf (Accessed 12 June 2020]. 3. SteriTouch⁺ All you need to know. SteriTouch⁺ Ltd. 2018 4. SteriTouch-2022. CORONAVINUUS – THE STERTENTOUCH STANCE. [online] Available at: https://www.steritouch.com/portfolio-posts/coronavirus-steritouch-stance/ [Accessed 12 June 2020].

© Copyright 2023 coVita LLC All Rights Reserved V010323





(Table 1) Foaming Instant Skin Sanitizer Efficacy Data

In-Vitro Antimicrobial Test Procedures and Protocols:

- Each test organism was grown overnight on Trypticase-soy agar slants at 35°C. Cell suspensions were prepared by adding 10mL sterile saline (0.9%) to each slant and gently scraping the slant surface. Microbial densities of each cell suspension were estimated using the viable plate count method.
- Test product (1mL) was aseptically added to sterile test tubes and then inoculated with a 1:10 dilution of a cell suspension (100 μL) of the test organism. At selected time intervals (0.5, 1.0 and 2.0 minutes), aliquots (10 μL) were aseptically removed and transferred to a Trypticase-soy broth recovery medium (10mL). Microbial growth was monitored by the development of turbidity in the recovery medium.

Test Results:

Foaming Skin Sanitizer with 0.13% Benzalkonium Chloride exhibited strong germicidal activity against a variety of gram-positive and gram-negative bacteria, as well as the yeast Candida albicans. In most instances viable cell numbers were reduced by greater than 99.99% after a 30-second exposure period with this product.

Organism Type	Test Microorganisms	Initial Inoculum (cfu/10μL)	Exposure Time (Minutes) 0.5 1.0 2.0 Growth in TSB	Reduction (percent)*
Gram Neg -	Pseudomonas aeruginosa	3.39 x 10 ⁵		99.99
Gram Neg -	Klebsiella pneumoniae	2.76 x 10 ⁵		99.99
Gram Neg -	Escherichia coli	15.8 x 10 ⁵		99.99
Gram Neg -	Salmonella typhimurium	18.9 x 10 ⁵		99.99
Gram Pos +	Staphylococcus aureus ATTC33591	21.2 x 10 ⁵	 (Methicillin Resistant / MRSA)	99.99
Gram Pos +	Staph. epidermidis	18.3 x 10 ⁵		99.99
Gram Pos +	Streptococcus faecalis ATTC522A	9.8 x 10 ⁵	(Vancomycin resistant entercococci / VRE)	99.99
Gram Pos +	Streptococcus agalactiae	12.1 x 10 ⁵		99.99
Gram Pos +	Micrococcus luteus	14.4 x 10 ⁵		99.99
Yeast	Candida albicans	12.6 x 10 ⁵		99.99
Fungi	Trichophytin mentogrophytes (Athlete's Foot)	9.6 x 10 ⁵		99.99
Gram Neg -	Salmonella choleraesuis	14.1 x 10 ⁵		99.99
Fungi	Aspergillius niger	11.8 x 10 ⁵		99.99
Gram Pos +	Listeria monocytogenes	17.9 x 10 ⁶	(30 seconds)	0 survival CFU/mL
Gram Pos +	Clostridium difficile	1.1 x 10 ⁴	(15 seconds)	0 survival CFU/mL

In-vitro Antimicrobial Efficacy for Foaming Skin Sanitizer with 0.13% Benzalkonium Chloride

(*) Indicates percentage reduction in numbers of viable cells evidenced by lack of growth in Trypticase-soy Broth medium.(-) Indicates no survival of test organisms in the recovery medium.

In Vitro Virucidal Tests	Results
Human Coronavirus (resembles SARS-like virus family) (Microbio Test, Inc. – USA)	The product showed virucidal efficacy on all test-viruses.
Influenza virus-A H3N2 (BioScience Labs – USA)	The product showed virucidal efficacy on all test-viruses.

Unless noted, all test performed by Chembac Laboratory - USA

© Copyright 2023 coVita LLC All Rights Reserved V010323