



Date: 6<sup>th</sup> March, 2020

## Coronavirus COVID-19/SureGard Filtration Efficiency

### Product Reference

RJVKB1 (Pink), RJVKB2 (Purple), RJVKB3 (Blue), RJVKB4 (Green), RJVKB5 (Red), RJVKB6 (Clear), RJVKB6-M (Clear), RJVKB6-MS (Clear), RJVKB7 (Pearl), RJVKB8 (Orange), RJVKB9 (White), RJVKB10 (Pearl/Purple), RJVKB11 (Orange/Pearl), RJVKB12 (Pearl/Orange).

### Dear valued customers,

With the hospital environment increasingly becoming a potential source of infection and a higher risk of infectious disease, Bird Healthcare has received numerous requests for Suregard filtration efficacy in relation to Coronavirus disease-2019 (COVID-19), MERS-Coronavirus (MERS-CoV) and SARS-Coronavirus (SARS-CoV), currently causing large scale infection in several countries worldwide.

We have not specifically validated our Suregard filters for removal of the COVID-19, MERS-CoV and SARS-CoV. However, Bird Healthcare in conjunction with our filter material supplier, GVS (formally AirSafety) have had the filter material tested at both the Health Protection Authority in the UK and Nelson Laboratories USA. The filters passed both BFE (Bacterial Filtration Efficiency) and VFE (Viral Filtration Efficiency) tests using Staphylococcus Aureus (\*ATCC #6538) and bacteriophage PHI X174 (\*Dimension about 0.025  $\mu\text{m}$ ) with results indicating that these all offer an effective barrier against bacteria and viruses (documents available upon request).

These reports have shown that the GVS filter material utilised in Suregard, serves as a barrier to contaminated body fluids. Moreover, the GVS filter material utilised in SureGard has been validated to remove a range of clinically relevant bacteria and viruses, including, but not limited to Influenza A virus (H1N1: 0.08-0.12  $\mu\text{m}$ ), HIV(0.08  $\mu\text{m}$ ), Hepatitis C virus(0.8  $\mu\text{m}$ ), Adenovirus (0.07  $\mu\text{m}$ ), Cytomegalovirus (0.1  $\mu\text{m}$ ), Orthomyxovirus (0.12  $\mu\text{m}$ ) and Mycobacterium tuberculosis (1.0  $\mu\text{m}$ ).

COVID-19, MERS-CoV and SARS-CoV are Coronavirus species (sizes range from 0.06 to 0.2  $\mu\text{m}$ ). Therefore, we believe these results indicate that our filters will prevent transmission of those Coronaviruses mentioned above.

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