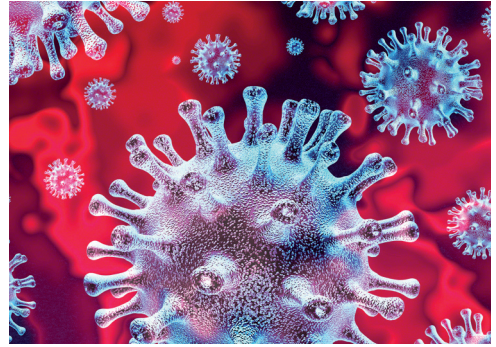


Sars-CoV-2 and Biomaster: interpreting your test results

Your Biomaster-treated item has tested successfully against Sars-Cov-2, the virus that causes Covid-19. This document will help you explain the data and the marketing claims that you are allowed to make.



Given the right conditions, bacteria can easily survive on surfaces. On untreated surfaces they will multiply over time, so for a Biomaster-treated sample a high percentage reduction is achievable when compared to the control. In typical antibacterial tests against common bacteria, Biomaster is proven to reduce the microbial load by up to 99.99%.

Viruses such as SARS-CoV-2 however are dependent on a host to replicate and so their survival on surfaces is limited. On untreated surfaces, virus numbers will decline. The longer the contact time in the test, the greater the reduction of the virus on the untreated sample. The aim of the test is to show an improvement in the reduction of the treated sample against the reduction seen on the untreated samples. There is no pass or fail criteria.

In your SARS-CoV-2 test report you will find the following values:

- a. A reduction value of the treated sample against initial inoculation (T_0)
- b. The antiviral activity of the treated sample compared to the control (R)

For the customer to make antiviral claims, ISO 21702 specifies that the percentage reduction should be expressed as that of the treated samples against the control.

To achieve this value, the R value needs to be input into the following equation:

Percentage Reduction = $(1-10^{-R}) \times 100$

For example: If $R=1$, Percentage Reduction = 90%. If $R=2$, Percentage Reduction = 99%.

This value can then be used in product/marketing claims, for example:

“We are pleased to announce that we have seen a reduction in SARS-CoV-2 on our treated surfaces. When tested to ISO 21702:2019 we have seen a reduction in SARS-CoV-2 on the surface of >X% after X hours when compared to a control.”

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