



coronavirus control surface disinfection active ingredient for formulators

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introduction

b bioactive™, an effective active ingredient against coronavirus, is formulated for use by manufacturers and formulators in their own cleaning and disinfection products. It conforms to food industry specifications and carries a SABS Mark Permit for SANS 1853:2017 and SANS 636:2013.

Surface disinfection forms an integral part of the cleaning processes. Under the exceptional circumstances thrust upon business by the drive to contain the spread of Covid-19, it has become necessary to treat a wider array of surfaces, to protect staff, customers and users, and ensure contamination free products and work areas.

b bioactive™ has been shown to be effective in a multitude of facilities and is equally as effective in institutional applications. It has also been shown to be effective in controlling biofilm.

Unlike alcohol-based products, which quickly evaporate, the **b bioactive™** disinfectant has a residual efficacy, which will last several hours on a cleaned surface. A sustainable solution, it is less hazardous to humans and equipment than traditional disinfectants.

example b bioactive™ product disinfection application environments

- healthcare
- life sciences
- food & beverage production
- hospitality
- government
- education
- retail
- commercial
- industrial
- agricultural sectors

guidelines for formulation

b bioactive™ can be used as is, included in other disinfectant formulations or in a formulation as a preservative. The table in the following page gives recommendations on formulation quantities.

This product has been tested using SANS 51276:2011, and when used directly, conforms to the specification using the appropriate dilutions provided in the **b bioactive™** application area on the following page.

For formulated products the quantities shown on the following page are suggested.



Table 1 below provides dilution ranges for the products

product	minimum b bioactive™ formulated product dilution (ml/litre)	maximum b bioactive™ formulated product dilution (ml/litre)	added as a preservative dilution (ml/litre)
b bioactive™-4	10	200	5 < 20
b bioactive™-20	2	40	1 < 4
b bioactive™-40	1	20	0.5 < 2

Do not formulate with anionic surfactants (eg sodium lauryl sulphate or sodium laureth sulphate), detergents or soaps (eg sodium stearate).

If a buffer is required, use phosphate or acetate-based buffers. Citrate has been shown to cause separation.

Due regard must be given to the registration of formulated disinfectant products.

b bioactive™-4 application (for use as-is, without modification)

On cleaned and rinsed surfaces:

for anti-viral applications: Dilute 60ml **b bioactive™-4** to one litre of potable water
Apply to the surface with Low pressure spray, clean cloth, sponge, mop or soak
Allow contact time for a minimum of 30 minutes
Rinse with clean water if required
Repeat as required for high use areas.

for anti-bacterial applications: Dilute 20ml **b bioactive™-4** to one litre of potable water
Apply to the surface with Low pressure spray, clean cloth, sponge, mop or soak
Allow contact time for a minimum of 30 minutes
Rinse with clean water if required

Use diluted product within 5 days

