

## Sonovia Mask Explanation

Due to the COVID-19 epidemic, we are working with an existing mask-manufacturer in Israel to accelerate the development of a high-quality mask to market specifically for the epidemic.

All our masks are antibacterial already proven high-efficacy [ $\log 5$ - $\log 7$ ]<sup>1</sup> and reusable and filter particles from 5 microns in diameter at 98% efficacy.<sup>2</sup>

COVID-19 is a virus that can't be released alone- it is transmitted through droplets that spread when an infected person coughs, sneezes, or speaks.<sup>3</sup> Droplets released from the nasopharyngeal system have a particles size larger than 5 microns.<sup>4</sup>

Moreover, our masks will be helpful during this time as it is required to wear masks and will stay that way for a while. It is not practical to go through a mask every day in terms of cost and waste generation.

After a few hours, single-use masks start to accumulate bacteria due to the hot and humid environment around the mouth and nose. When we touch our masks, these bacteria can spread and cause bacterial infections. Our masks will not have this problem as they kill bacteria on contact- making them wearable for many hours.<sup>5</sup>

Sonovia is working hard to create superior, high quality Personal Protective Equipment.

1. Antibacterial Test Report Attached
2. Filtration test Report
3. [www.who.int/news-room/q-a-detail/q-a-coronaviruses](http://www.who.int/news-room/q-a-detail/q-a-coronaviruses)
4. Infections nosocomiales virales et à agents transmissibles non conventionnels de Bruno Pozzetto
5. [www.ncbi.nlm.nih.gov/pmc/articles/PMC6037910/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC6037910/)



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