

# Zentek Announces New Antimicrobial Testing Results

written by Raj Shah | March 22, 2023

March 22, 2023 ([Source](#)) – **Zentek Ltd.** (“**Zentek**” or the “**Company**”) (Nasdaq:ZTEK); (TSXV:ZEN), an intellectual property development and commercialization company, announces that SGS Standard Technical Services Co. (“SGS”) recently conducted tests to determine the extent of the antimicrobial properties and the time required to achieve deactivation of bacteria and virus on ZenGUARD™-coated mask material.

“Our goal at Zentek from early on in the pandemic was to create a technology that could improve the health and safety of our valued frontline healthcare workers” said Greg Fenton, CEO of Zentek. “Our patented ZenGUARD™ antimicrobial technology with 99.99% bacterial and viral filtration efficiency brings an added level of protection that doctors, nurses and all frontline healthcare providers deserve. We are excited to bring our unique ZenGUARD™ surgical masks to them via our Canadian distribution partnership with Southmedic Inc.”

## Key Data points

- Antibacterial testing completed by SGS following AATCC 100-2019 Test

## Method for Antibacterial Finishes on Textile Material

- Antiviral testing completed by SGS and followed ISO 18184: 2019 Textiles – Determination of antiviral activity of textile products TCID<sub>50</sub> method
- The ZenGUARD™-coated mask fabric demonstrated over 99.99%

antibacterial effectiveness after 1 hour where 260,000 Escherichia Coli (E. coli) Colony Forming Units (CFU) was reduced to under 100 CFU.

- The untreated control mask samples saw 120,000 E. coli CFU grow to 2.5 million in 1 hour and 1.1 billion in 8 hours
- The ZenGUARD™-coated mask fabric demonstrated 86.7% antiviral effectiveness after 1 hour against H<sub>1</sub>N<sub>1</sub> and 99.7% after 8 hours
- These meaningful reductions in bacterial and viral load may have an impact in the reduction of infectious disease in high-risk environments

### **Impact in High-Risk Environments**

In the context of high-risk indoor settings, such as hospitals where doctors, nurses and other healthcare professionals and patients wear surgical masks and are exposed to dangerous bacteria and viruses daily, this data offers compelling evidence that ZenGUARD™-coated mask material can provide additional protection with the strong antimicrobial properties of ZenGUARD™. The reduction in bacterial and viral growth in the mask materials may contribute to protecting doctors, nurses, other hospital staff and patients, as well as long term care residents and their caretakers, from mask acne to potentially preventing significant disease from bacterial or viral infections.

Southmedic Inc. is Zentek's exclusive distribution partner in Canada for hospitals, clinics, long-term care, nursing homes and community health care services. For any purchase requirements, please contact Southmedic Customer Service at [custserv@southmedic.com](mailto:custserv@southmedic.com) or by phone at 1-800-463-7146, Mon – Fri 8:30am – 5:00pm.

### **About Zentek**

Zentek is an IP development and commercialization company focused on the research, development and commercialization of novel products using graphene and nanomaterials for use in the healthcare industry and beyond.

Zentek's patented ZenGUARD™ coating is shown to have 99% antimicrobial activity and to significantly increase the bacterial and viral filtration efficiency of both surgical masks and HVAC systems. Zentek's ZenGUARD™ production facility is located in Guelph, Ontario.

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To find out more about Zentek Ltd., please visit our website at [www.Zentek.com](http://www.Zentek.com). A copy of this news release and all material documents in respect of the Company may be obtained on ZEN's SEDAR profile at <http://www.sedar.com/>.

**Forward-Looking Statements**

This news release contains forward-looking statements. Since forward-looking statements address future events and conditions, by their very nature they involve inherent risks and uncertainties. Although Zentek believes that the assumptions and factors used in preparing the forward-looking information in this news release are reasonable, undue reliance should not be placed on such information, which only applies as of the date of this news release, and no assurance can be given that such events will occur in the disclosed time frames or at all. Zentek disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, other than as required

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**SOURCE:** Zentek Ltd.