MINISTRY OF HEALTH
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Summary of Examination Process of

GENERION'S STERIONIZER - products and Technology Developed by Beit-El Industries

By The

NATIONAL CORONA CONTROL CENTER IN THE MINISTRY OF HEALTH

In the framework of our activities to examine specific equipment and technologies to prevent the spread of corona and reduce the possibility of infection, we initiated and followed the examination process of an Israeli company, GENERION LTD, products and technology, developed by Beit-El Industries, that absorbs and reduces the amount of contaminates in the air of closed areas by Professor Yehuda Carmeli, **manager of the National Infection Control Center in the Health Ministry.**

Sterionizer technology was presented to us by representatives of the company who claimed that this technology can be used as a significant layer of protection against the virus in closed areas.

The Sterionizer is a technology developed by Beit - El Industries, an Israeli development implemented and installed in many places in Israel and worldwide, some in sensitive facilities.

Standardization approvals from Israel and from the world were presented to us as well as laboratory test results conducted in the last decade from abroad contesting to the efficiency of the technology against bacteria, mold, viruses such as bird flu, swine flu, and others.

Sterionizer is a technology integrated into electronic instruments (modular) causing bi-polar ions of oxygen atoms in the air, when these ions meet water (humidity) molecules a chemical reaction occurs (H_2O_2) that envelops the micro-organisms and absorbs the from without and from within.

Several parameters were examined in the framework of the process and testing of the technology:

- Safety of the technology and the instrumentation (does not harm the environment and its use near people)
- Regulatory approvals in Israel and worldwide (Standards Institution of Israel, CE, UL, international standards, etc.)
- Efficiency and effectiveness of the technology against the virus

In order to investigate all the parameters we requested, as required, Professor Yehuda Carmeli's intervention by virtue of his job and authority as Manager of the National Infection Control Center in the Health Ministry to examine the technology and its data.

After the initial examination of safety process and standards it was decided to characterize an experiment in conjunction with a recognized laboratory in Israel to evaluate the efficiency of the technology against the virus.

Such an experimental protocol was characterized, by Professor Carmeli together with the staff at Hylabs, certified Laboratory in Israel, in accordance with standard international requirements for testing viruses.

Experiments started at Hylabs, certified Laboratory in Israel on 22nd November 2020 lasting several weeks and finished on 30th December 2020. On the 21st January a final signed report was issued describing the testing protocol as well as final conclusions of the experiment.

Conclusion of report establishes that the Sterionizer destroyed over 99% (average log 2.13) and that the experiment succeeded uncondionally.

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Table2: Gener Sterionizer Antiviral Activity Experiment Results

Sample	Initial Viral $TCID_{50}$	Calculated Viral $TCID_{50}$	Viral Log Reduction	% Virus Reduction
PC I & II	2.31E+07	1.26E+06	0	0
Test I		7.72E+03	2.2	≥99
Test II		1.26E+04	2.0	≥99
Test III		8.62E+03	2.2	≥99
Average viral log reduction			2.13	≥99

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