

EFFECTIVENESS TESTS

1

Evaluation of the virucidal effectiveness (SARS-CoV2) of dry steam

Laboratory Eurofins Biolab - Vimodrone (MI) - Italy

Considering that:

The SARS-CoV2 virus - according to the published information - has similar heat-sensitive properties to other Coronaviruses;

- Thermosensitive viruses are completely deactivated in a few seconds at very high temperatures, for example from 150° to 160°C due to the heat and the deactivation speed for each log is minimal, quantifiable as about 0.1 seconds;
- Coronaviruses are completely deactivated within one minute at 80°C from the heat generated by dry steam and the log inactivation speed is approximately 10 seconds;
- The viral load of Coronavirus can be partially reduced within one minute at 65°C from the heat generated from dry steam;

It can be said that the steam treatment of Polti equipment must be considered effective in completely deactivating the SARS-CoV2 virus at a temperature of 80°C or higher.

With the very high temperatures reached by the Polti Vaporetto models compatible and combined with the Polti Sani System Gun accessory, deactivation is effective in very short exposure times (a few seconds).

2

Disinfectant effectiveness

Third party and independent laboratories

The steam of the Polti Vaporetto, Polti Vaporetto Lecoaspira cylinder steam cleaners and Polti Unico kills and eliminates 99.99%* of viruses, germs and bacteria.

*Tests carried out by third party and independent laboratories attest that Polti Vaporetto kills and eliminates 99.99% of viruses, germs and bacteria.

LIST OF TESTS:

Salmonella enterica - Report R-301601.R0 - 07/05/2013 - Gibraltar
Klebsiella pneumoniae - Report R-301986.R0 - 07/05/2013 - Gibraltar
Pseudomonas aeruginosa - Report R-301986.R0 - 07/05/2013 - Gibraltar
Staphylococcus aureus - Report R-301601.R0 - 07/05/2013 - Gibraltar
Mycobacterium tuberculosis - Analysis A-207703 - 04/07/2003 - Biomedco
Listeria monocytogenes - Analysis A-207703 - 04/07/2003 - Biomedco
Clostridium - Analysis PCI-01B-220900 - 19/09/2000 - Biomedco
Enterococcus vancomycin res. - Analysis PCI-01C-220900 - 19/09/2000 - Biomedco
Salmonella - Analysis PCI-01B-040202 - 30/01/2002 - Biomedco
Staphylococcus aureus - Analysis PCI-02-2100202 - 15/02/2002 - Biomedco
Campylobacter - Analysis PCI-01C-040202 - 30/01/2002 - Biomedco
Escherichia coli - Analysis PCI-01A-040202 - 30/01/2002 - Biomedco
Trichophyton mentagrophytes - Report R-302390.R0 - 07/05/2013 - Gibraltar
Influenza Type A2 - Report R-302963.R0 - 17/05/2013 - Gibraltar
Coronavirus - Analysis A-207703 - 04/07/2003 - Biomedco

The steam from Polti Vaporetto steam mops kills and eliminates 99.9% ** of viruses, germs and bacteria.

** The Polti Vaporetto steam mop has been tested on the most common bacteria such as Escherichia coli, Staphylococcus aureus, Pseudomonas aeruginosa, Aspergillus brasiliensis, Salmonella enterica. It kills and eliminates 99.9% of viruses, germs and bacteria.

LIST OF TESTS:

Escherichia coli - Validation report Vaporetto SV4XX Polti - 30/06/2016 - Ecam Ricert

Staphylococcus aureus - Validation report Vaporetto SV4XX Polti - 30/06/2016 - Ecam Ricert

Pseudomonas aeruginosa - Validation report Vaporetto SV4XX Polti - 30/06/2016 - Ecam Ricert

Listeria innocua - Validation report Vaporetto SV4XX Polti - 30/06/2016 - Ecam Ricert

Salmonella enterica Typhimurium - Validation report Vaporetto SV4XX Polti - 30/06/2016 - Ecam Ricert

Aspergillus brasiliensis - Validation report Vaporetto SV4XX Polti 30/06/2016 - Ecam Ricert

Virus - Technical report Vaporetto SV4XX Polti - 21/07/2016 - Ecam Ricert

3

Acaricidal effectiveness

Cambridge University - Lyon Dermatological Hospital

Two prestigious institutions - the Cambridge University and Lyon Dermatological Hospital - have subjected a Polti steam cleaner to different effectiveness tests.

The experiment was based on the comparison between the Polti steam cleaner and normal vacuum cleaners and their ability to eliminate dust and scabies mites.

▶ **CAMBRIDGE UNIVERSITY** examined two carpets and two mattresses, artificially contaminated with live mites. A carpet and mattress were cleaned with a traditional vacuum cleaner, the other carpet and the other mattress with the Polti steam cleaner that eliminated: **97% of the mites from the carpet and 98% from the mattress, with an 86% decrease in allergens.** The traditional vacuum cleaner, however, eliminated only 57% of mites and 46% of allergens.

▶ **LYON DERMATOLOGICAL HOSPITAL** has tested the effects of the Polti steam cleaner against scabies mites, which can be present on bedding and environments surrounding infected people.
The mites were eliminated after only 5 seconds of exposure to the powerful steam jet.

POLTI VAPORETTO, POLTI VAPORETTO LECOASPIRA AND POLTI UNICO: THE NATURAL WAY TO ELIMINATE MITES AND ALLERGENS

These results confirm that the steam generated by these Polti steam cleaners can not only reduce the number of live mites, but can also decrease the allergens produced by them, providing an extraordinary decontaminating action. All for the benefit of our health and the prevention of allergies.

These results have been further confirmed by the British Allergy Foundation, which awarded both Polti Vaporetto and Polti Vaporetto Lecoaspira its Seal of Approval as products effective in the elimination of mites.