

Successful Testing of Path-Away® Against SARS-CoV-2

ASX Announcement 19 October 2020

Highlights

- **Leading United States accredited environmental testing facility has completed Path-Away® testing against the actual virus that causes COVID-19**
- **Path-Away® achieved a 3-Log reduction (99.9%) of the virus within two minutes, on a hard surface.**
- **Global Infection Control Consultants, LLC believe this to be the world's first totally natural and safe organic disinfectant to meet the USA testing standard¹.**
- **Path-Away® is the active ingredient in NatShield™ and Protectene™, which are both owned by Holista**
- **This test result on Path-Away® is expected to facilitate the listing requirements in the USA's Environmental Protection Agency's (EPA) "List N"²**
- **Holista is now preparing a submission to the Australian Therapeutic Goods Administration (TGA) for labelling approval of Natshield™ as an aerosol disinfectant, for dry fogging and HVAC Systems.**

Holista Colltech Limited (ASX: HCT, "Holista" or "the Company") is pleased to announce the results of the independent tests of Path-Away® Anti Pathogenic Aerosol Solution (Path-Away®) on **SARS-CoV-2**, the virus that causes COVID-19, which was undertaken by Microbac Laboratories, Inc. (Microbac).

Path-Away® as an anti-pathogenic aerosol solution, has already been successfully tested on the surrogate of SARS-CoV-2 in an accredited British laboratory in April 2020.

Microbac is a Department of Defence (DoD) and Environmental Laboratory Accreditation Program (ELAP) accredited laboratory based in the United States of America. It has over 50 years expertise.

¹ https://www.epa.gov/sites/production/files/2017-05/documents/reregistration_efficacy_standards.pdf

² <https://www.epa.gov/coronavirus/disinfectant-use-and-coronavirus-covid-19>

Test Results

Cells containing the SARS-CoV-2 virus were seeded in 24-well plates and 2.0 mL (millilitres) of Path-Away® was added to the (live frozen samples – thawed out) dried virus inoculum and held for the contact time of 2 minutes at 21°C with 53% relative humidity (RH). For the test to be deemed successful, Path-Away® must demonstrate a $\geq 3 \text{ Log}^{10}$ reduction on each test carrier in the presence or absence of cytotoxicity.

Path-Away® achieved this benchmark in each of the 24 instances (100% success rate). All controls met the criteria for a valid test and Microbac's conclusions are based on observed data.

Log Reduction stands for a 10-fold (one decimal) or 90% **reduction** in numbers of live bacteria. A **3-Log Reduction** equates to a **99.9% reduction – greater than 1,000 time reduction** in potentially harmful microorganisms.

The full test report and process will be featured on the Holista website at www.holistaco.com

Microbac's testing concluded that Path-Away®, the active ingredient used in Holista's NatShield™ and Protectene™ range of disinfectant products, **killed 99.9% ($\geq 3 \text{ Log}^{10}$) of the COVID-19 causing virus** on a hard surface after being exposed to Path-Away®.

Dr Arthur V Martin, the president of GICC, commented: "To the best of my knowledge, this is the first time a completely natural, all-organic compound has been successfully proven to kill the actual virus causing COVID-19, to 99.9% within 2 minutes. We are excited because this will allow us to speed up the formal USA Government process of listing into the Environmental Protection Agency's (EPA) "N-List". EPA expects the products on "List N" to kill SARS-CoV-2 within 2 minutes. This will also allow for a wider use of this all-natural disinfectant for human use. The findings by Microbac confirms what we have known about the effectiveness of Path-Away® on the other coronaviruses".

"The results are also particularly pleasing in light of recent research that showed that COVID-19 can survive on surfaces³ far longer than scientists had originally calculated."

Dr. Roscoe Moore, D.V.M., Ph.D., D.Sc., Former Assistant United States Surgeon and member of the Global Viral Network and its International COVID-19 Taskforce and Chairperson of Holista Colltech Scientific Advisory Board said that "there is a big need for natural and human friendly disinfectants that can be used frequently and safely without long term health side effects and while being environmentally safe. This recent test from Microbac is most welcome as the public is looking for an agent that acts specifically against COVID-19".

³ <https://www.abc.net.au/news/2020-10-12/coronavirus-can-live-on-surfaces-28-days-australian-scientists/12752108>

Dr Rajen Manicka, Chief Executive Officer of Holista, commented: “This product will address the significant untapped global market for all-natural disinfectants that are safe to be used on hands and faces. The results from Microbac will give our customers a greater level of confidence that NatShield™ can be effective on skin, surfaces and as an aerosol, against the highly contagious COVID-19 causing virus.”

“The fact that Path-Away® can kill 99.9% of the virus in two minutes is important as we know it can be effectively used for air borne control of COVID-19 given recent evidence that the virus can be spread through the air”.

“We are preparing a submission to the Australian Therapeutic Goods Administration (TGA) for approval to label our Natshield™ and Protectene™ range of sanitizing and disinfectant products, as well as to have Natshield approved for aerosol delivery through fogging units and through buildings’ HVAC systems in Australia.”

This announcement has been approved for release by the Board of Directors.

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About Holista Colltech Limited

Holista Colltech Ltd (“Holista”) is a natural wellness company with the following divisions:

- Dietary supplements
- Food Ingredients
- Ovine collagen
- Infection Control Solutions

Holista has a global collaboration with Global Infection Control Consultants LLC to use Path-Away®, a plant-based solution that is proven to kill a broad spectrum of microbes. The all-natural alcohol-free active ingredient is used in Holista’s range of disinfectant products under the NatShield™ brand.

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