

INNOVATIONS IN COVID-19

Bridging opportunities
at Oswaldo Cruz Institute

CORONA-REVEAL (COD. 2021.001)

COORDINATOR

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RESEARCH AREA

Prevention and Reduction of Contagion

DEVELOPMENT STAGE

Level 3 - TRL - Proof of concepts of critical functions in an analytical or experimental way.
MRL - Demonstrated manufacturing process (making it work).

PROPOSITION / APPLICATION

There is global concern regarding protection against SARS-CoV-2, the virus that causes COVID-19. Once installed on a surface, the virus can remain undetectable and infective for days, increasing the transmissibility of the disease, representing a challenge for coping with the COVID-19.

Proper sanitization after contact with people or materials has proven to be effective in removing SARS-CoV-2 from surfaces. However, the invisibility of the virus brings uncertainties about the correct decontamination of environments, generating insecurity and, thus, providing opportunities for viral dissemination.

INNOVATION

The invisibility of the virus brings uncertainty about the decontamination of environments, generating insecurity and providing opportunities for viral dissemination. The product described herein is intended to reveal and neutralize the pathogen when applied to surfaces contaminated by SARS-CoV-2. Therefore, the present invention is presented as an alternative method to PCR to identify contaminated surfaces and as an additional method of neutralizing the pathogen on surfaces. It is noteworthy that, currently, the identification of SARS-CoV-2 is performed by a PCR method that depends on expensive equipment, specialized training and an adequate environment for its execution. In addition, this product has the differential of transforming an invisible threat into a visible target and, so far, there is no product with these characteristics on the market. This alternative method is of low cost, easy to apply and interpret results. Interestingly, once developed, the technology could be applicable to any other pathogen that poses an emergency threat to the population.

OPPORTUNITY

Offer of a product capable of identifying, revealing and neutralizing the SARS-CoV-2 on various contaminated surfaces and environments.

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