

BE6P7MTTV



Dean of Veterinary faculty
T.R.
ISTANBUL UNIVERSITY CERRAHPASA



Number :72796624-045.01-
Topic : Technical and Professional

TO SANİDEZ PHARMACEUTICAL INDUSTRY AND TRADE COMPANY
Erenler Mah. 1184 Sokak No:1
Erenler/SAKARYA

A Scientific Opinion prepared by Professor Nuri TURAN, one of the faculty members of the Department of Virology, was sent in the appendix about the Pron-Up branded disinfectant product being developed and produced by your company.

I request your information.

Electronically Signed
Prof. Dr. Güven KAŞIKÇI
Dean V.

25/03/2020 Technician : H.KESKİN
25/03/2020 Faculty secretary. : S.TUNÇEL

**TRANSLATED
FROM TURKISH**

Doğrulamak için: <http://dogrulama.istanbulc.edu.tr/enVision.sorgula/belgedogrulama.aspx?V=BE6P7MTTV> (for confirmation)

Ayrıntılı bilgi için irtibat : Hatice KESKİN Dahili : 43499

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ISTANBUL UNIVERSITY
FACULTY OF VETERINARY MEDICINE
DEPARTMENT OF VIROLOGY

REPORT

Report Date: **25.03.2020 GENERAL INFORMATION**

While some coronaviruses such as HCoV-229E, -NL63, -OC43 and -HKU1, which are in the coronaviridae family, cause moderate infections that are endemic in humans, coronaviruses such as SARS-CoV, MERS-CoV and SARS-CoV-2 cause severe infections in humans. In addition, there are many coronaviruses that affect the respiratory and digestive systems in mammals and poultry. These factors contaminate the environment with respiratory and digestive tract exits and pose a risk to sensitive humans and animals.

There is a need for Level 3 or Level 4 laboratories for virus production and virucidal efficacy studies related to highly infectious and human health threats such as SARS-CoV-2, HIV, Hantavirus and Ebola virus. In the absence of laboratories at this level, virucidal efficacy studies can be carried out by using viruses that have similar structural features as specified in standard protocols and regulations, but do not cause disease and are not zoonotic in humans.

In this context, Bovine enterovirus should be tested as a reference virus in accordance with the standard TS EN 14675, which entered into force in October 2015 in order to evaluate the antiviral efficiency of chemical disinfectants and antiseptics used in veterinary field. In addition, Poliovirus Type 1, Adenovirus Type 5 and Murine noroviruses should be tested as a reference according to the standard No. TS EN 14476, chemical disinfectants used in the type entered into force in September 2019 to test the killing activity of viruses in public and personal areas.

As is known, enveloped viruses are more sensitive to heat and disinfectants. If it is considered that the above-mentioned non-enveloped viruses are used in virucidal effect tests, scientific data support that disinfectants will be more effective against enveloped COVID-19 and other coronavirus, which are less resistant to the external environment.

RESULT:

According to the results of test analyzes carried out in Yeditepe University Biocidal and R&D Laboratories according to TS EN 14675 and TS EN 14476, in order to measure the effectiveness of pron-up branded disinfectant viruses;

1- According to the analysis report No. 190-00496 / 7 included in the file, the virucidal activity of Pron-Up named disinfectant against Bovine enterovirus was determined. Therefore, the efficacy of Pron-Up disinfectant to coronaviruses and other viruses that are found as Contaminant on equipment and surfaces in the veterinary field is accepted.

2- According to the analysis report No 190391-00 / 07 in the file, the disinfectant named Pron-Up has been found effective against Poliovirus Type 1, Adenovirus Type 5 and Murine noroviruses, so it is also considered effective against coronaviruses, including COVID-19 found in public and private areas.



Prof.Dr.Nuri TURAN
Istanbul University Cerrahpasa Veterinary
Faculty Department Of Virology

TRANSLATED
FROM TURKISH

BE6PF6ZNK



T.R.
Dean of the IUC Faculty of Veterinary Medicine
Head of the Department of Pre-Clinical Sciences
Head of Veterinary Virology Department



No. :92927521-804.01-
Topic : Report.

TO THE DEAN OF THE VETERINARY FACULTY

Concern :27.07.2020 date and no. 96998 report.

According to the article of concern; The scientific opinion report requested by Sanidez İlaç Company regarding the effect of Pron-Up CE-branded disinfectant product against viruses and prepared by our department professor Prof. Nuri TURAN is presented in the attachment.

Submitted for your information and requirements

Electronically Signed
Prof. Dr. Hüseyin YILMAZ
Head of the Department

Attachment :
Report

**TRANSLATED
FROM TURKISH**

Doğrulamak için: <http://dogrulama.istanbulc.edu.tr/enVision.sorgula/belgedogrulama.aspx?V=BE6PF6ZNK> (for confirmation)

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ISTANBUL UNIVERSITY CERRAHPASA
FACULTY OF VETERINARY MEDICINE
DEPARTMENT OF VIROLOGY

REPORT

Report date: 28.07.2020

GENERAL INFORMATION

Herpes viruses that cause infections in humans are DNA and enveloped viruses. Similarly, Hepatitis B virus (HBV), which causes serious infections in humans, is a DNA-containing and enveloped virus. Human Immunodeficiency virus (HIV) and Hepatitis C viruses are RNA and enveloped viruses that cause very important and contagious diseases in humans. These factors mentioned above contaminate the environment with blood and body fluids and pose a risk for other sensitive people.

There is a need for Level 2/3 laboratories for the production of virus and virucidal efficacy studies to be carried out for the highly contagious and human health threats mentioned above. In the absence of laboratories at this level, virucidal efficacy studies can be carried out by using viruses that have similar structural features as specified in standard protocols and regulations, but do not cause disease and are not zoonotic in humans.

In this context, Poliovirus Type 1, Adenovirus Type 5 and Murine noroviruses should be tested as a reference according to the standard No. TS EN 14476 , chemical disinfectants used in the type entered into force in September 2019 to test the killing activity of viruses in public and personal areas.

As is known, enveloped viruses are more sensitive to heat and disinfectants. If it is considered that the above-mentioned non-enveloped viruses are used in virucidal effect tests scientific data support that disinfectants will be more effective against enveloped COVID-19 and other coronavirus, which are less resistant to the external environment.

Result :

According to the results of test analyzes carried out in Yeditepe University Biocidal and R&D Laboratories according to TS EN 14675 and TS EN 14476 and OECD ENV7JM/MONO(2012)15 standards in order to measure the effectiveness of pron-up branded disinfectant viruses;

- According to the analysis report No 190391-00 / 07 in the file, the disinfectant named Pron-Up has been Found %99,99 effective against Poliovirus Type 1, Adenovirus Type 5 and Murine noroviruses, so it is also considered effective against HIV, HBV, HCV ve Herpes viruses found in public and private areas.



Prof. Dr. Nuri TURAN

**Istanbul University Cerrahpasa Veterinary
Faculty Department Of Virology**

**TRANSLATED
FROM TURKISH**