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Presentation of results

Testing to determine the acute toxicity potential of the active disinfectant plasma reaction products generated with the "CUBUSAN" device from Steurer Trocknungs- und Aufbewahrungssysteme GmbH according to EN ISO 10993-5

Testing start date: February 10, 2022 – Testing end date: April 29, 2022 – Report date: May 10, 2022

The "Cubusan" device uses atmospheric low-temperature plasma to generate airborne oxygen reaction products with water vapor in the air, in the form of hydroxyl radicals. Indoors, these hydroxyl radicals lower the risk of infection due to aerogenic pathogen transmission.

The device was subjected to cytotoxicity testing in accordance with EN ISO 10993-5 to identify any acute toxic effects.

To this end, device emission products were technically extracted from the air and concentrated in situ in a buffer solution poured into a wash bottle. The buffer solution was then subjected to cytotoxicity testing to detect any mutagenic effects of the concentrated plasma reaction products.

Test kit used:
Invitrogen CyQuant LDH
cell culture A 549

Device: CUBUSAN CP-120, Item: 62-210-300, serial number: 10022800, YOM 2021

Results:
No cytotoxic effects were observed in comparison to a concentrated air sample devoid of plasma reaction products.

Based on the interpretation of the test result, there is no evidence of a direct cytotoxic effect on human cells by the plasma reaction products generated by the "Cubusan" device.



signed by PD Dr.med. Ulrich F. Schmelz, Lead Study Investigator

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