

Effectiveness of Space Sterilization with Acid Hypochlorous Water

Evaluation Method of Virus Removal Effect

About the virus removal effect by spraying disinfection, there is no internationally established evaluation method. The Japan Electrical Manufacturers' Association (JEMA) has formulated "air purifier removal performance evaluation test method against floating virus" and "air purifier removal performance evaluation test method against indoor virus" as a group standard. By using these, there are examples that "virus reduction rate is faster with spraying acid hypochlorous water".

<Outline of Test Methods>

Air purifier removal performance evaluation test method against floating virus

Test products are placed in a test room of 20 m³ to 32 m³, and virus suspension is sprayed and floated. After collecting the initial floating virus, the test products are put into operation. After that, the floating virus in the test room is collected over time and the virus infectious titer is measured.

Air purifier removal performance evaluation test method against indoor virus

Test products and sterilized gauzes/ plastic petri dishes with virus solution attached are placed in a test room of 20 m³ to 32 m³. After collecting the initial virus-attached gauzes or petri dishes, the test products are put into operation. After that, virus-attached gauzes or petri dishes are collected over time and the number of phages or the virus infectious titer is measured.

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Reference:

Air purifier removal/ suppression performance evaluation test method against virus [Japan Electrical Manufacturer's Association (JEMA)]