



## **AIR LOG 6**

### **PRODUCT DESCRIPTION**

AIR LOG 6 is a sanitizer, neutralizer of the air with microbicidal, fungicidal and virucidal action in compliance with EN guidelines.

The aerial disinfection of surfaces (DVA) is an innovative technology based on the principle of nebulization of an active product. The sanitizing product is sprayed in the form of micro drops and subsequently diffused into the environment. This technology enables the automated surface hygiene, reaching even the least accessible parts without leaving any trace.

The broad spectrum of activity allows to control most of the microbial contamination potentially present in sterile and controlled contamination environments. The formulation demonstrated its effectiveness with a 2.7 log reduction on SARS-CoV-2

### **FIELDS OF USE**

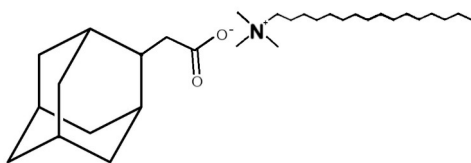
Suitable for structures where air control is required. It's particularly suitable for use in the food, pharmaceutical, biomedical industries and in analytical laboratories and sterile environments. Also recommended for the biodecontamination of clean rooms, institutions (community, school, museums, theaters).

### **CHEMICAL COMPOSITION**

Active ingredient: 2-propanol with 1-propanol 42%; Fast Virex 0.02% refined Clorex, 10% iso alcohol, essences, distilled water.

### **EXCLUSIVITY**

Fast Virex<sup>®</sup> Molecule, CAS number:2541646-20-0



### **MECHANISM OF ACTION**

AIR LOG 6 exploits the combined action of 2-propanol and 1-propanol with refined clorex mixed with isopropyl alcohol which are active against Gram-positive and Gram-negative bacteria, and also against fungi in synergy with a FAST VIREX synthesis salt, with retroviral function for the purpose of Rna-si degradation. AIR LOG 6 acts by drastically increasing the permeability of the bacterial cell membrane by altering its protein structure; this causes the precipitation of different cytoplasmic macromolecules and the subsequent cell death by lysis of the bacterial cell or of the fungus or of the virus

### **METHOD OF USE**

The use of AIR LOG 6 involves the use of electronic units, programmable through smartphone applications or special displays that allow them to be diffused in the timed air, or with a permanent appearance. The tested diffusers deliver rotational nanomicelles that remain suspended in the air for a long time, in order to effect effective neutralization. The diffusers must be programmed according to the structural needs where they will be placed, depending on the daily or weekly activities (see user manual), it is advisable to select a diffuser action tested for each speaker.

### **CAPACITY AND CUBING**

The delivery of the Airlog 6 sanitizer has been entrusted to a range of advanced diffusers, capable of delivering permanent diffusion, as a first defense against viral pandemics, ensuring a good percentage of contrast and containment of the infectious degree. All this in the presence of people. The range covers the following cubes:

- 50 m<sup>3</sup> "SMARTY" model (*diffusore ad ultrasuoni*)
- 150 m<sup>3</sup> "MINI" model
- 350 m<sup>3</sup> "REGULAR" and "SKY" models



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1500 m<sup>3</sup> "PRO" model

10000 m<sup>3</sup> "BIG CLIMA" model

Each model has programmable grades to be selected in relation to the number of people present and hypothetical users of the environment.

### **EFFECTIVE PREVENTION ACTION TOWARDS MOLECULAR PATHOLOGIES CAUSED BY COVID-19**

Starting from the study on immunity induced by SARS-CoV-2 on hospitalized patients in critical conditions, the observation that the most severe cases of SARS-CoV-2 present an excessive immune response is relevant. The AirLog6 formulation is able to limit and contain the immune storm responsible for serious molecular diseases.

In particular:

- It limits and contains the cytokine storm (Essential for reducing distress syndrome acute respiratory).
- It contrasts the alterations of human HLA and HLA-DR (in case of pneumonia reduces the risk of severe respiratory collapse).
- It mediates the SARS-CoV-2 T cell response (protective immunity).
- It limits the deregulation of the immune system in COVID-19, reducing the risk of lymphopenia and eosinopenia.
- The containment of the antibody response which in COVID-19 has shown a persistence of viral RNA positivity even in cases of mild disease. In the most severe forms, the antibody response is excessive with a titer of 3000 times higher which must certainly be contained

### **STABILITY**

Validity of 36 months of the stability of the active ingredients and therefore of the biological activity (Study carried out at the Department of Chemistry, "La Sapienza" University according to the EN 13610 standard).

Store the product in its original packaging in a cool, clean and dry place, away from high heat sources and not exposed to direct sunlight.

### **TOXICITY**

Primary eye irritation: Moderately irritating

Low toxicity: (LD 50 oral rat: ~ 2,000 mg / kg). (Studies performed at the Department of Experimental Medicine, University of "L'Aquila and RTC - Research Toxicology Center, Rome).

### **CLINICAL VALIDATION**

- Document of compliance of WHO guidelines 2003 about aerosolization in critical environment III<sup>o</sup> class - Prof. A. Fadda - Università Cattolica del Sacro Cuore A. Gemelli Roma.

Dipartimento di Microbiologia e Virologia

- Inhibition assay on live SARS-CoV-2 strains by evaluating cellular toxicity and logarithmic inhibition of the virus on biological media

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### **AVVERTENZE**

Keep out of reach of children. In case of ingestion consult a doctor and show him the label and container. Do not throw the residues in the sewers. Do not disperse in the environment. Refer to special instructions/safety data sheets. Easily flammable.

### **CERTIFICATIONS**

- The product possesses standard-compliant quality requirements UNI EN ISO 9001:15.
- Compliant with the EU directive on biocides 98/8/CE.
- Reference bibliography: Persistence of coronaviruses on inanimate surfaces and their inactivation with biocidal agents G. Kampf a , \* , D. Todt b , S. Pfaender b , E. Steinmann b a University Medicine Greifswald, Institute for Hygiene and Environmental Medicine, Ferdinand-Sauerbruch-Straße, 17475 Greifswald, Germany b Dipartimento di virologia molecolare e medica, Ruhr University Bochum, Universitätsstrasse 50, 44801 Bochum, Germania.



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