

The Gazette

n.10 October 2024

ENVIRONMENTAL RAPID VIRUS DETECTION IN HOSPITAL PREMISES

The rapid virus detection in at risk premises like hospital is an important factor to take immediated corrective measures for the patients health.

Viral analytical results can be obtained in short time, without incubation, when bioaerosol samples are collected with a portable dedicated air sampler paired with molecular analysis.

This is an important object when a dangerous virus like COVID19 is the object of the research.

The analytical method involves two separate phasis: A. The collection of the air. B. The molecular test (e.g.: PCR or other systems).

- The sampling procedures of aerosol collection is executed with the TRIO.BAS VIRUS sampler by a sterile container with a specific liquid.
- The air is aspirated and drawn into the container and mixed in the collecting fluid.
- The contaminated liquid is ready to be analysed by a molecular test. One of the most used test is SARS-COV-2RNA by Reverse Transcription Polimerase Chain Reaction (RT-PCR).