

Visual in House microbiological tests

The biocidal performance of our devices has been evaluated against surface attached microorganisms in a visual way. This section shows how Klean is able to destroy the microorganisms present in people's hands.

A number of volunteers introduced their hands in plastic bags filled with a small amount of water. The water content of all bags was mixed together and poured in equal volumes into plates that contain nutrients for bacteria or both for bacteria and fungus.

Half of the plates were introduced in a cubicle without the device (control without the device), and the other half in a cubicle that had the device working inside it (test with active device), as seen in the picture below.



After seven days, the microorganisms that were collected from the volunteer's hands could perfectly grow in the cubicle which had no device in it; they multiply and become easy to visualize by naked eye.

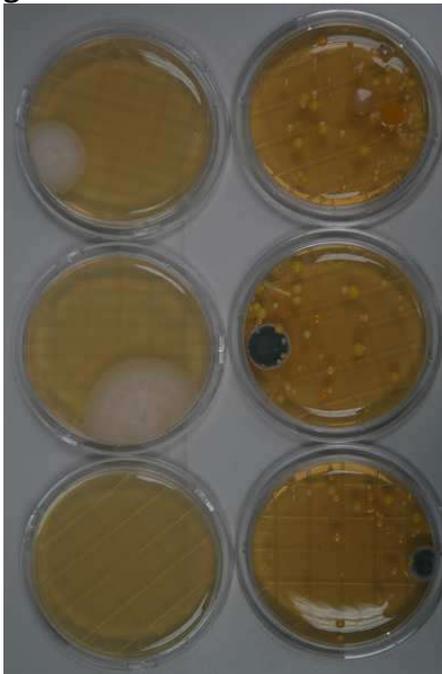


We purify • We clean • We protect

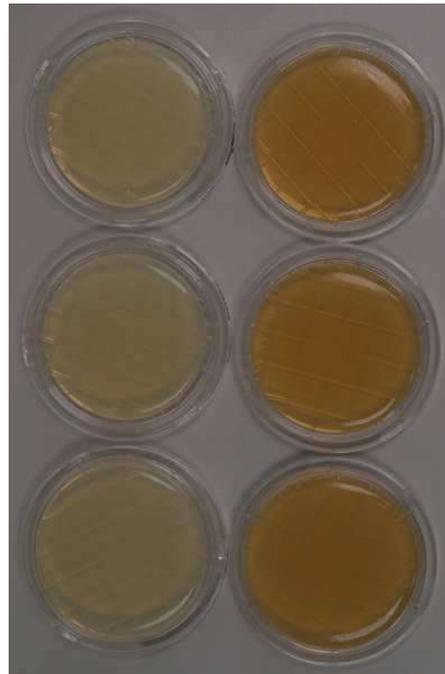
Instead, in the cubicle where Klean was located and operating, the microorganisms present in the volunteer's hands were killed and therefore nothing grew in the plates.

The pictures below are a clear demonstration that the technology is capable of preventing the spread and growth of bacteria and fungi even under favorable conditions.

**Control Test Without Device:
Microorganisms growth after 7 days
growth**



**Test with Active Device:
No bacterial growth, No fungus**



In House Smoke Reduction Test Report

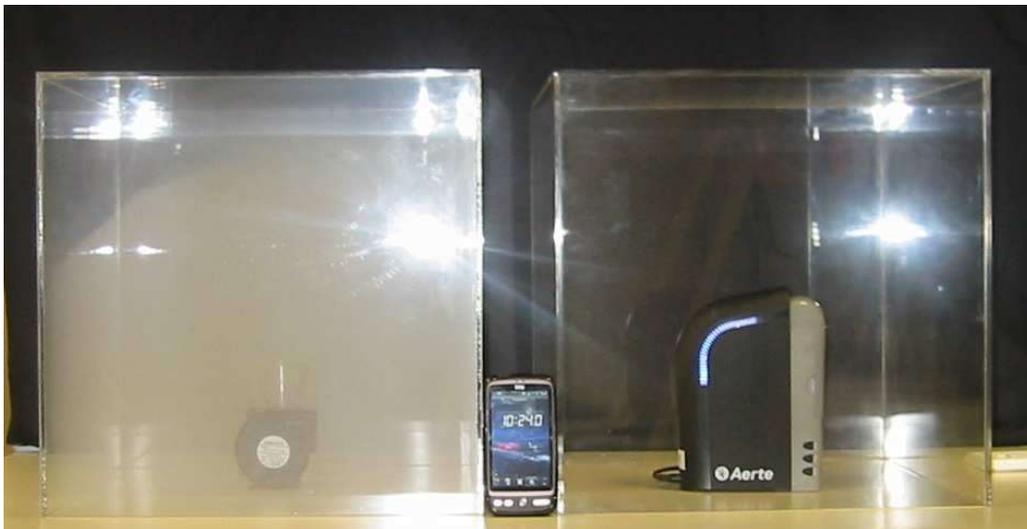
The smoke reducing performance of our devices was investigated by visualizing how Klean is able to remove smoke generated from burning joss sticks.

Two experiments were conducted in parallel: the test chamber contained a Klean device, and the control chamber did not. Joss sticks were placed into a glass and lit. Then a test chamber positioned on top of them, with a fan inside to generate a homogenous smoke within the chamber. Once the sticks stopped burning, the fan was switched off.

Then Klean is switched on in the test chamber, and the timer started. The status of both chambers was recorded at 1 minute intervals; until the smoke in the test chamber containing the Klean unit has completely cleared.

Below the image show the chambers with and without the device and the status of the chamber with the Klean in it, after 10 minutes of operation of the device.

Klean is able to completely remove the heavy smoke present in the chamber within 10 minutes.





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The experiment was left for 8 hours (with the Klean running), to be able to visualize the residues left on the surfaces due to the smoke present in the chamber. Once the chambers were removed there was an evident yellow-brownish residue in the control chamber that was markedly less in the test chamber with Klean inside, as shown in the pictures below. Klean is able to reduce surface contamination due to airborne contaminan

