

AiroCide PPT™ Air Quality-Improvement™ Systems

AiroCide PPT™ contains the same NASA-developed *AiroCide™ Air Quality-Improvement™* technology that is used in a variety of *AiroCide* product lines. In addition to serving the perishable preservation and food safety industry, the *AiroCide* technology is has been developed to kill/remove/eliminate airborne pathogenic and non-pathogenic microorganisms in vegetative and spore states (bacteria, mold & fungi, viruses and dust mites), allergens, odors and harmful volatile organic compounds (VOC's) in air in a variety of commercial, government, and residential market applications including the medical healthcare industry (*AiroCide* is listed as an FDA Class II Medical Device).

Summary

A study was conducted in the refrigerated citrus warehouse of a produce wholesaler in Valencia, Spain to determine if the *AiroCide* technology could reduce the amount of airborne mold present in the warehouse.

The *AiroCide* system in the warehouse reduced the amount of airborne mold by 79% in one week.

Facility

The 43,400 ft³ warehouse held oranges at the time of the test. Temperature in the cooler was maintained at 54°F during the seven days of air sampling.

Protocol

The test period consisted of two (2) days of air sampling, seven (7) days apart. Baseline readings, with no *AiroCide* system operating, were conducted for comparison to the “Active On” test. After the *AiroCide* system (2 ACS-100 units) was operating for seven (7) days, air samples were taken again at the same sites and times of day.

Results

The *AiroCide* system in the warehouse reduced airborne mold by 79% in seven (7) days.

Specific Mold Species Reductions After 7 Days of AiroCide Use	
<i>Penicillium italicum</i>	100%
<i>Penicillium digitatum</i>	100%
<i>Penicillium spp.</i>	72%
<i>Cladosporium spp.</i>	88%

Copies of tests mentioned in this paper can be obtained by writing KesAir, Research & Development, 3625 Kennesaw N. Ind.Pkwy., Kennesaw, GA 30144. *AiroCide*, *KesAir* & *KesAir Technologies*, and *Air Quality-Improvement* are trademarks of KesAir Technologies, LLC

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