

# Empirical Findings 试验为证的确定

## Abstract 摘要

The objective of the study is to verify the effectiveness of PCO (Photo-Catalytic Oxidation) Technology towards the stoppage of molds spread within the bread, spread through the air and the effects of PCO-Hydroxyl radicals and superoxide ions oxidize and decompose the molds on bread.

主要的目的是为了确定 PCO 科技是否能够将面包上的霉菌阻止，还原及氧化和证实 PCO 的功能可停止霉菌经过空气中蔓延到别处。

## Product 产品

- ENVIPRO- Air Neutralizer of **PersonalAir 707** 空气中和器

## Method of verification 确定的方式

- Visual and magnifier glass 视察和放大器

## Methodology 方法

**-Step 1-** A piece of bread was left for 5 days and fully growth with molds (*see photograph 1*)

第一步 - 一片放了五天后的面包及长满了霉菌 (请看第一张照片)

**- Step 2-** The molded bread was kept in a transparent cubicle together with ENVIPRO- Air Neutralizer for a short period and subsequently with a piece of fresh bread together with a ENVIPRO-Air Neutralizer for a longer period (*see photograph 2*)

第二步- 观察一片发了霉的面包和一架操作中的 ENVIPRO - 中和器短暂的放在一个透明的箱子里，五天后一片新鲜的面包也放到同样的箱子里 (请看第二张照片)

**-Step 3-** The breads were kept for 3 weeks together with the Air Neutralizer and the Air Neutralizer was running 10 hours daily (*see photograph 3*).

第三步-让面包和中和器放在同一个箱子里长达三个星期,让中和器每天操作十小时 (请看第三张照片)

## Experiment Steps (试验步骤)

### Step 1 第一步

A piece of fresh bread has been placed at indoor room environment at normal temperature and moisture for a period of 5 days, as photograph 1, the molds have outgrown very aggressively and covered up almost 90% of the total bread area. The condition of molded bread has confirmed the strong relationship between molds

Existence and speedy grown in our current indoor living environment.

新鲜的面包过了五天后,长满了将近九十巴仙霉菌,可见证到在室内环境霉菌的存在及快速成长。

### Photograph 1 第一照片



### Bread condition 面包的状况

The darker green area show that the mold has fully growth into the bread itself, light green area showed that molds had grown aggressively on top of the surface and the yellow areas are covered up slightly by the molds.

深青色是指生长已久的霉菌，浅青色是霉菌还在表面上蔓延，黄色是指少量的霉菌。

### Photograph 2 第二照片



### Step 2 第二步

The molded bread has been left in the cubicle since 6<sup>th</sup> to 11<sup>th</sup> together with the operating ENVIPRO Air Neutralizer, seem the condition of the mold spread has stopped. From this visual verification, relationship has been confirmed strongly that PCO Oxidation is capable to stop the mold spread within the bread itself. In order to further verify the PCO Oxidation is capable to stop the mold spread through the air, a piece of fresh bread has been placed together with the molded bread inside the same cubicle

together with the ENVIPRO - Air Neutralizer and turning on for a longer period of time.

将发霉的面包独自放在中和器操作的箱子里长达五天，霉菌停止生长，也就证实了 PCO 科技能够阻止霉菌的功能。试验将一片新鲜及一片发霉的面包和操作的中和器一起存放在箱子里，经过长时间来证实 PCO 科技是否能够有效阻止霉菌经过空气散播？也有效的将霉菌氧化到死亡？

### Step 3 第三步



The breads have been left in the cubicle for 23 days and with 10 hours PCO oxidation exposure daily. 俩片面包存放在每天只限制接触到十小时 PCO 氧化的环境长达二十三天。

### Photograph 3 第三照片



After 23 days, the molded bread has changed the conditions and the visual verification has confirmed the following relationship as below:二十三天后，证实有如以下  
-The PCO oxidation able to remove the bacteria or mold in the air so that the fresh bread is not affected at all. 新鲜面包保持原样，证明 PCO 氧化功能有效的除弃空气中的霉菌及细菌。  
-The PCO oxidation is able to stop the mold spread (the yellow area become bigger and yellow lining has

appeared near the corner) and stop growing (the color is became darker –due to the molds has become inactive and dry).

长满霉菌的面包已经甘化了（黄色面积变大及多了，深青变成黑色）

### Conclusion 结论

-The PCO Technology is capable to oxidize the trapped bacteria and molds effectively within the air in the indoor living environment.

PCO 科技功能证实有效氧化室内含有霉菌及细菌的空气。

-ENVIPRO-Air Neutralizer has satisfied the empirical objective.

中和器已经达到试验规定目标。

Empirical evidence provided just for information only

以上提供的资料只限制于做为参考而已

STH Research & Information Center 顺达兴研究及资料中心

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Empirical testing verified by:

Dr Nash SMC PhD & members

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