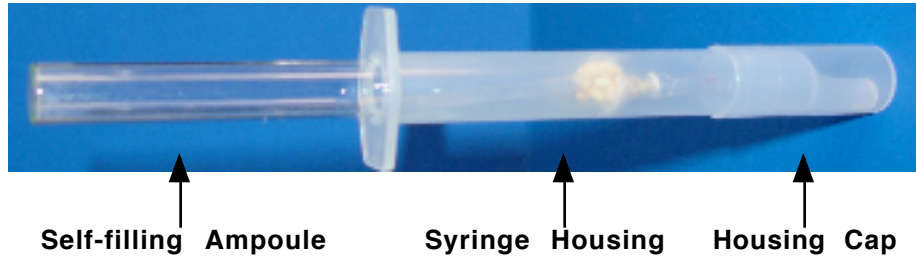


Indoor Air Quality Test Kit

**Micro
Inspector**

Fast • Accurate • Easy To Use
Self-filling Test Ampoule

**IAQ
Test Kit**



Test Kit Information

Contains: 1 Self-contained Test, 1 Instruction Sheet, 1 Sterile Wiping Sponge, 1 Pair Sterile Gloves and 1 Bottle of Rinse Solution.

Overview

The Micro Inspector is a unique, self-contained single-use test that screens for aerobic microbial activity on any dry surface area. Test results indicate presence/absence and activity levels measured in cfu's. The self-filling glass test ampoule is housed in a protective plastic tube. Ampoule filling is accomplished by placing ampoule tip in sample and simply pushing down. After the ampoule is full, drain excess sample water and remove plastic housing by pulling gently towards the tip. Examine bottom end of tube to match to color chart at prescribed time intervals.

Taking the Sample

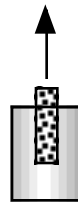
Sample Site Selection: is the "Wipe Zone". The "Wipe Zone" should be an area of approximately 144 square inches (1 foot x 1 foot). Normally, a "Wipe Zone" is one area. Suggested sample areas should be part of your buildings air circulation system i.e. inside air ducts, air vent surfaces or air filters.

1. Put on the sterile gloves.
2. Open the sealed vial and remove the wiping sponge.
3. Apply a small amount of rinse solution to the surface of the wiping sponge to make contact with the "WIPE ZONE".
4. Using a single direction motion, wipe the "WIPE ZONE". It is not desirable to apply a lot of downward pressure on the sponge which will cause the sponge to lose the rinse solution. Contact is all that is necessary. See the illustration for the desired wipe pattern.
5. Having gone over the "WIPE ZONE" in one direction, turn the sponge over and wipe the same area in the opposite direction. (Steps 4 & 5)
6. Put the sponge back in the container.
7. Pour the rest of the rinse solution over the sponge and close the sponge container.
8. Shake the sponge container vigorously for about 20-30 seconds. This action is intended to wash the microbes off the sponge surface into the solution.
9. Immediately after the shake, pour the contents into the sample cup and run the Micro Inspector.

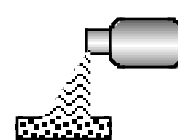
STEP 1



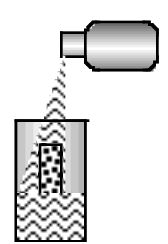
STEP 2



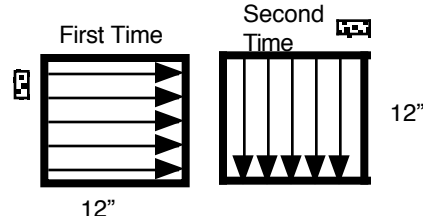
STEP 3



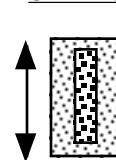
STEPS 6 & 7



STEPS 4 & 5



STEP 8



Sample/ Snapping cup



STEP 9

Indoor Air Quality Test Kit

Running the Micro Inspector

1. Remove the housing cap.
2. Fill supplied water sample cup.
3. **Technique #1 - push down**
With ampoule tip placed in water sample, grip syringe housing as shown on right and push down until tip breaks against housing side and ampoule completely fills. Be sure to keep ampoule tip below water line to completely fill ampoule.
4. **Technique #2 - twist**
With ampoule tip placed in water sample, grip syringe housing with one hand and ampoule with other hand. Twist and push down slightly until tip breaks and ampoule fills. Be sure to keep ampoule tip below water line to completely fill ampoule.
5. When ampoule is completely full, remove from water sample and gently rock ampoule back and forth to totally dissolve bio-chemical reagents.
6. Incubate at approximately 75F degrees for 24 hours.



Observe Results

Observe color by looking at the bottom end of the ampoule while pointing the opposite end towards a light source and match to this chart.

Color	Inspection Time		
	4 Hours	12 Hours	24 Hours
YELLOW	Continue Test	Continue Test	Negative
ORANGE	Continue Test	Warning	Borderline
RED	Dangerous	Problem	Warning

FUNGI Floating red particles indicate presence of fungal spores

QUANTITATIVE TEST RESULTS

ELAPSED TIME	INCUBATION	
0.5 Hours	10^8	Critical
2.5 Hours	10^7	
4.5 Hours	10^6	
6.0 Hours	10^5	Problem
7.0 Hours	10^4	
9.0 Hours	10^3	Cautiously Okay
16.0 Hours	10^2	Okay
24.0 Hours	10^1	

Disposal

The microbes in Micro Inspector will automatically die from lack of oxygen and food over time. In this state, it can be safely put to trash.

Simpltek
 8 Byron Road Commack, NY 11725
 631-864-0099
<http://www.simpltek.com> • info@simpltek.com

Part # ST9200IAQ

Ampoule Patent #5159799, 5550032