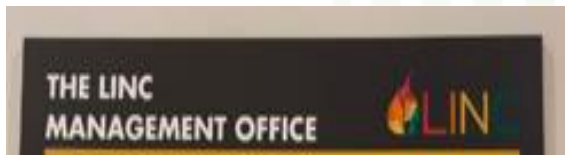


Case study on The LINC Kuala Lumpur

7th October 2021



The LINC KL is a trendy retail center with shops & eateries, plus an industrial-chic design centered around trees. It is located at the intersection of Jalan Ampang and Jalan Tun Razak in the heart of Kuala Lumpur.



Test Method:

- 1) Identify test location of the office, in this case is the pantry top shelf and the top cupboard of the front working space.
- 2) Using a surface sampling instrument to swab the identified surface. The identified areas are considered being the least cleaned area.
- 3) Placement of the treatment PUREFOLIO purifying gel on the top self of the pantry and the other unit is at the center of the room next to the photocopier.
- 4) Retest frequency based on swab tests taken within the next 7-10 days. Test and result period is from 17th Sept 2021 to 7th Oct 2021.

5) Interpretation of results are as follows:-

Spot 1 - Pantry

This area will be hard to reach and is not clean on a regular basis. Location towards the back of the office.



Spot 2 - Cupboard

This area will be the upper part of the cupboard and is not easily reachable during the daily cleaning routine. Location is at the front of the office.

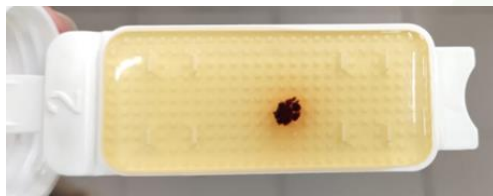


First test conducted on 17th Sept 2021

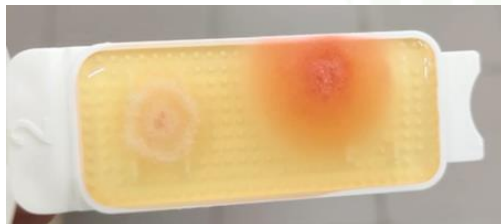


Findings:

1) Spot 1 - Pantry, test made on **17th Sept 2021**, result shown on **27th Sept 2021**. Ten days result **before deploying** PureFolio Gel.

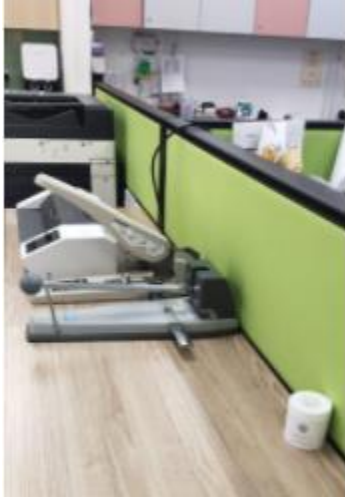




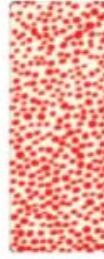




2) Spot 2 - Cupboard, test made on **17th Sept 2021**, result shown on **27th Sept 2021**. Ten days result **before deploying** PureFolio Gel.



Both areas showed bacteria & mold present, with the nutrients on the strip it will encourage further growth.

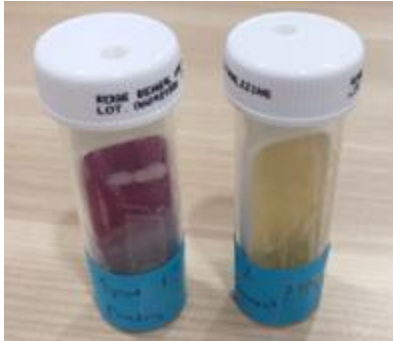
The office is introduced to PUREFOLIO’s purifying gel which is placed in the office area, 1st tub is at the center of the room next to the photocopier and the 2nd tub is placed on top of the pantry shelf.



Bacteria/Yeasts				Moulds			
							
<25	25-50	50-200	>200	CFU/side	<10	10-20	>20
<200	200-400	400-1600	>1600	Surfaces (CFU/100cm²)	<80	80-160	>160
10 ³	10 ⁴	10 ⁵	10 ⁶	Liquids (CFU/ml)	10 ²	10 ³	10 ⁴

A colony-forming unit (CFU, cfu, Cfu) is a unit used in microbiology to estimate the number of viable bacteria or fungal cells in a sample. Viable is defined as the ability to multiply via binary fission under the controlled conditions.

Second test conducted on 27th Sept 2021



Findings:

1) Spot 1 - Pantry, test made on **27th Sept 2021**, result shown on **7th Oct 2021**. Test taken **after Purefolio tubs were deployed for ten days**.



2) Spot 2 - Cupboard, test made on **27th Sept 2021**, result shown on **7th Oct 2021**. Test taken **after Purefolio tubs were deployed for ten days**.



After 10 days of the second test, with the introduction of PUREFOLIO's purifying gel into the air environment, the result shown on 7th Oct 2021 has a significant reduction of the bioburden load.

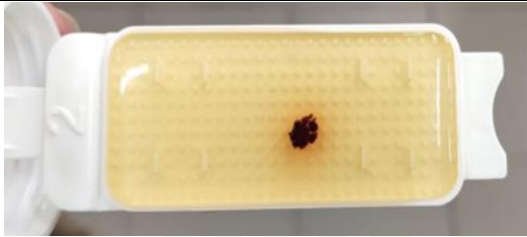



After a period of 20 days, where the first round of test was conducted on 17th Sept 2021 which the PUREFOLIO's purifying gel were then placed in the office for treatment and a second test were conducted on 27th Sept 2021, 10 days after the introduction of the purifying gel, a comparison of the test results were placed side by side for an easier observation.

COMPARISON





METHOD:

- Before and after the deployment of the gel
- Both 10-11 days of period

A) Spot 1 - Pantry

	Spot 1 BEFORE DEPLOY GEL	Spot 1 AFTER DEPLOYMENT OF GEL
Pictures		
Test Date	17 th Sept to 27 th Sept (10days)	27 th Sept to 7 th October (11days)
Picture Dated	27 th September 2021	7 th October 2021
Findings	Bacteria visibly shown on the tester.	Indicated bio burden load reduction.
Pictures		
Test Date	17 th Sept to 27 th Sept (10days)	27 th Sept to 7 th October (11days)
Picture Dated	27 th September 2021	7 th October 2021
Findings	Harmful mold is shown on the tester after ten days test.	After deployment of gel for ten days. Less mold shown around the area.

B) Spot 2 - Cupboard

	Spot 2 BEFORE DEPLOY GEL	Spot 2 AFTER DEPLOYMENT OF GEL
Pictures		
Test Date	17 th Sept to 27 th Sept (10days)	27 th Sept to 7 th October (11days)
Picture Dated	27 th September 2021	7 th October 2021
Findings	Bacteria visibly shown on the tester.	Bacteria totally eliminated at the second spot nearby the cupboard.
Pictures		
Date	17 th Sept to 27 th Sept (10days)	27 th Sept to 7 th October (11days)
Picture Dated	27 th September 2021	7 th October 2021
Findings	Presence of mold is visibly shown around cupboard area.	Good results from the floor, as no growth of mold was detected after the deployment of the gel.

CONCLUSION

Challengers faced will be the inability to measure the frequency of the movement of people in and out of the office.

With the above test done on the venue, it certainly indicates that with the introduction of PUREFOLIO’s purifying gel into the confined environment, it reduced the bioburden load significantly and improves the quality of air in the office environment.