

Product Review: SeLF Personal Air Purifier
Requestor: trustech

Report Reviewed: Indoor Air Quality Monitoring
Performing Laboratory: Al Hoty-Stanger Laboratories, U.A.E
Report Date: 22-February-2021

Union71 Score:

PASS

Union71 Summary:

Al Hoty-Stanger Laboratories performed an Indoor air quality evaluation of the SeLF Personal Air Purifier. Multiple parameters were evaluated to test for the environmental safety of the SeLF Personal Air Purifier.

For the reported parameters, there was no significant difference between the environments when comparing a baseline (control or normal) room versus the room with the SeLF Personal Air Purifier over an 8-hour period.

No significant harmful compounds were identified within the submitted study.

Overall, the submitted testing report from Al Hoty-Stanger Laboratories showed no significant deleterious environmental changes associated with the SeLF Personal Air Purifier.

Note: A binary scoring system was used including 2 results: pass or fail.



SUMMARY OF REPORTED PROCEDURE

Two adjacent rooms were used in the testing. The rooms were of identical size and shared the same HVAC system. A Gray wolf Indoor Air Quality monitor, on a tripod, was stationed in the center of both rooms in a similar location.

The first room did not contain the SeLF Personal Air Purifier. The second room contained the SeLF Personal Air Purifier.

The concentration of pollutants, listed below, were tested and logged at a frequency of once were 1 minute. The rooms were monitored continuously for 8 straight hours on February 21, 2021 (1000 to 1800 Hours).

Parameters tested included concentrations:

- Oxygen
- Carbon Dioxide
- Carbon Monoxide
- Ozone
- Sulphur Dioxide
- Nitrogen Dioxide
- Formaldehyde
- Total Volatile Compounds (TVOC)

In addition, the following was monitored at a similar frequency:

- Temperature
- Relative Humidity

SUMMARY OF REPORT FINDINGS

Overall, no significant change in the concentration of tested parameters as follows:

- Oxygen
 - Not decreased with the SeLF Personal Air Purifier
- Carbon Dioxide
 - Not increased with the SeLF Personal Air Purifier
- Carbon Monoxide
 - Not increased with the SeLF Personal Air Purifier
- Ozone
 - Not increased with the SeLF Personal Air Purifier
- Sulphur Dioxide
 - Not increased with the SeLF Personal Air Purifier
- Nitrogen Dioxide
 - Not increased with the SeLF Personal Air Purifier
- Formaldehyde
 - Not increased with the SeLF Personal Air Purifier
- Total Volatile Compounds (TVOC)
 - Not increased with the SeLF Personal Air Purifier

There was not a substantial difference in the monitored temperature and relative humidity when comparing the two rooms over the testing period.

UNION71 PERSPECTIVE

Review of testing performed by Al Hoty-Stanger Laboratories evaluating the SeLF Personal Air Purifier showed no significant difference between the environments comparing with versus without the device.

Importantly, the procedure appears sufficiently robust controlling various factors, including, but not limited to, room size dimension, position of testing, type of monitoring device, frequency of testing, length of testing, temperature, humidity, similar building construction, and shared HVAC systems.

In addition, multiple submitted ancillary studies on the SeLF Personal Air Purifier and related technology were reviewed. The submitted studies reported statistically significant reduction of microbial colonies as well as tested viral loads associated with the SeLF Personal Air Purifier. The reviewed findings are consistent with decreased microbial and viral loads associated with the SeLF Personal Air Purifier and related technology.

Overall, the submitted environmental testing report from Al Hoty-Stanger Laboratories showed no significant deleterious environmental changes.

REVIEW BY:

Dr. Ziad Peerwani M.D.
Consultant Physician

American Board of Pathology Certifications:

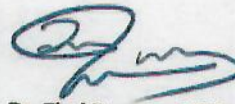
- Anatomic Pathology
- Clinical Pathology
- Hematology



ABOUT UNION71

In 2020, Union71 was created by splitting off the laboratories within SEHA - Abu Dhabi Health Services Co. into a separate private business performing 10+ million laboratory tests per year. Union71's foundation represents 20+ years of extensive experience providing the highest quality laboratory testing to patients requiring the most specialized and complex care within Abu Dhabi. Through its inception, Union71's pathology and laboratory capabilities are now available to the broader community improving much needed access to complex testing and clinical expertise.





Dr. Ziad Peerwani MD
Chief Executive Officer, Union71
March 1, 2021

