

MOLEKULE INC.

TEST REPORT

SCOPE OF WORK

Non-standardized Test Method: Microbial Reduction Rate Test

PRODUCT

Air Mini

S/N-MN14-SHA190919-004610

REPORT NUMBER

104257511COL-001

ISSUE DATE

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DOCUMENT CONTROL NUMBER

GFT-OP-10h (6-July-2017)

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MICROBIOLOGICAL PERFORMANCE TEST REPORT

Client		MOLEKULE INC. 1301 Folsom St San Francisco, CA 94103
Project No.		G104257511
Sample	Product	Air Purifier
	Model	Air Mini S/N-MN14-SHA190919-004610
	Identification No.	COL2002181212-001
	Date Received	02/19/2020
	Condition	New/good
	Production or Prototype	Production
Procedural	Engineer	Nicholas Unger
	Reviewer	Lee Moomaw
	Dates Tested	02/24/2020 – 02/26/2020
	Report Date	02/26/2020
	Test Temperature and Relative Humidity	19°C, 26%
Standard	Non-standardized Test Method: Microbial Reduction Rate Test	

Test Method Summary:

The test unit was placed in a test chamber and a microbial suspension was aspirated into the chamber. The test unit was turned on and set to the highest airspeed. Air samples were taken from the test chamber once the unit was turned on, and then at 15-minute intervals over a period of 2 hours and plated on nutrient agar. The process was then repeated without the test unit in the chamber to provide the natural decay results. All plates were incubated overnight and bacterial/fungal/viral growth on test plate was compared to that of the natural decay control.

The test unit was then allowed to run for 24 hours after the initial viral aerosolization. After which, the filter of the unit was removed and a section of filter weighing 2.5g was removed and placed into a flask with 25ml sterile pbs. The flask was then shaken on a wrist-action shaker for 15 minutes. The resulting elution was plate counted to determine viral phage counts.

Summary of Results:

Air Mini	Air Microbial Reduction
Virus	Coliphage φX174 (Item # 124425)
Reduction	98.7%

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PECO FILTER	Post-24 Hour Viable Virus in Filter
Virus	Coliphage ϕ X174 (Item # 124425)
pFU/mL	Not Detected*

*Detection limit of the method is <10pfu/mL

Test Performed by:



Nicholas Unger
Project Engineer
Columbus Office

Report Approved by:



Lee Moomaw
Engineering Team Lead
Columbus Office