

# Health-Mor

## EFFICACY TEST REPORT

### SCOPE OF WORK

Non-standardized Test Method: Microbial Reduction Rate Test

**PRODUCT** – Air purification unit

**MODEL** – Defender filter queen

### REPORT NUMBER

104868700COL-002

### ISSUE DATE

11/30/21

**PAGES** 5

### DOCUMENT CONTROL NUMBER

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

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**SECTION 1 EFFICACY STUDY SUMMARY**

<b>Client</b>		<b>Health-Mor 13325 Darice Pkwy Strongsville, OH 44149-3819 USA</b>
<b>Project No.</b>		<b>G104868700</b>
<b>Sample</b>	Product	Air purification unit
	Model	Defender filter queen
<b>Procedural</b>	Engineer	Amanda Mastronicolas
	Reviewer	Nicholas Unger
	Dates Tested	11/22/21 – 11/24/21
	Report Date	11/30/2021
<b>Standard</b>	Non-standardized Test Method: Microbial Reduction Rate Test	
<b>Testing Facility</b>	Intertek Microbiological Laboratory 1717 Arlingate Ln. Columbus, OH 43228 United States	

**SECTION 2 TEST PROCEDURE**

The test chamber measured 10'x10'x10' (1000 cubic ft) room and a microbial suspension was aspirated into the chamber. Air samples were taken from the test chamber once the unit was turned on and sampling was taken every 15 minutes over a period of 2 hours, and then plated. The process was then repeated without the test unit in the chamber to provide the natural decay results. All plates were incubated overnight and viral growth on the test plate was compared to that of the natural decay control.

Air sampling took place using an SKC BioStage Single-stage impactor for 30 seconds at 12L/min (.424 cubic feet/min). Results below represent the percent reduction at 90 minutes.

**SECTION 3 ORGANISMS**

Organism Name	Organism Type	ATCC Number	Source
MS2 bacteriophage	small, non-enveloped RNA virus	15597-B1	ATCC


**SECTION 3 EQUIPMENT**

Equipment Type	Equipment No.	Calibration Due Date
Micropipette	CE 2587	06/30/2022
Incubator	CE 2381	7/7/2022
Balance	CE 1882	7/7/2022
Autoclave	CE 2376	Verify Before Use
Centrifuge	CE 2382	For Reference Only
Chamber	CE 1149	For Reference Only
Collision Nebulizer	CE 1139	For Reference Only
Refrigerator	CE 1157	For Reference Only
Pump	CE 1137	For Reference Only
Stopwatch	SW013	9/9/2022
Ambient Temperature/RH	CE 1179	For Reference Only

**SECTION 4 MEDIA AND REAGENTS**

Type	Manufacturer	Lot No	Expiration Date
Nutrient Agar	DIFCO	9346039	10/31/2024
PBS	Fisher	192736	08/01/2022

**SECTION 5 SAMPLE ACQUISITION**

<b>Acquisition method</b>	Shipped to Intertek
<b>Description</b>	Air Purifier Unit
<b>Model Number</b>	Defender filter queen
<b>Arrival date</b>	11/15/2021
<b>Condition</b>	New
<b>Sample Identification No.</b>	COL2111150955-001
<b>Development Level</b>	Production
<b>Sample Photo</b>	


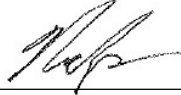
**SECTION 6 SUMMARY OF RESULTS**

<b>Air Flow</b>	<b>Optional Features</b>
Max Speed per unit	N/A

# ANTIMIRCIBIAL EFFICACY TEST REPORT

HEALTH-MOR  
Report No.: 104868700COL-002

Organism Type	Virus
Temperature Min/Max	18°C (66°F)
Humidity Min/Max	41 % RH
Organism Name	MS2
Percent Reduction (90 Mins)	99.9%
Log Reduction (90 Mins)	3.0

Completed by:	Amanda Mastronicolas	Reviewed by:	Nicholas Unger
Title:	Microbiology, Team lead	Title:	Staff Engineer
Signature:		Signature	
Date	30-NOV-2021	Date:	30-Nov-2021

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