

# Energetico, Inc.

## TEST REPORT

**SCOPE OF WORK**

Non-standardized Test Method: Microbial Reduction Rate Test - Bacteria test (E. coli)

**PRODUCT**

xTAC All in One

**REPORT NUMBER**

104322225COL-001

**ISSUE DATE**

12-May-2020

**PAGES**

2

**DOCUMENT CONTROL NUMBER**

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

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**MICROBIOLOGICAL PERFORMANCE TEST REPORT**

<b>Client</b>		<b>Energetico, Inc. PO Box 546212 Miami, Florida 33154</b>
Project No.		G104322225
Sample	Product	Air Purifier
	Model	xTAC All in One
	Identification No.	COL2004301011-001, COL2005051500-001, COL2004291109-001
	Date Received	05/05/2020, 4/30/2020, 4/29/2020
	Condition	New/good
	Production or Prototype	Production
Procedural	Engineer	Nicholas Unger
	Reviewer	Lee Moomaw
	Dates Tested	05/06/2020 – 05/11/2020
	Report Date	05/12/2020
	Test Temperature and Relative Humidity	22-23C 47-53% RH
Standard	Non-standardized Test Method: Microbial Reduction Rate Test	

**Test Method Summary:**

The test unit was ducted into a sealed test chamber measuring 1000ft<sup>3</sup> and a microbial suspension was aspirated into the chamber. The test unit was turned on. Air samples were taken from the test chamber once the unit was turned on and samples taken at 5-minute intervals for the first 15 minutes. Subsequent sampling took place every 15 minutes thereafter for 1 hour. The process was then repeated without the test unit turned on 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.

Air sampling took place using an SKC BioStage Single-stage impactor for 30 seconds at 12L/min. Results below represent the percent reduction at 1 hours.

**Summary of Results:**

<b>Test Parameter – xTAC All in One</b>	
<b>Organism Type</b>	<b>Bacteria</b>
<b>Organism Name</b>	<i>Escherichia coli</i> (ATCC 11229)
<b>Percent Reduction</b>	99.9%

Test Performed by:



Nicholas Unger  
Project Engineer  
Columbus Office

Report Approved by:



Lee Moomaw  
Engineering Team Lead  
Columbus Office