

Kinetic Solutions, Inc. MICROBIOLOGICAL TEST REPORT

SCOPE OF WORK

MICROBIAL REDUCTION RATE - IMPACTOR COLLECTION TEST METHOD

PRODUCT

KINETIC SOLUTIONS (MODEL: BIOGS 2.0)

LABORATORY REPORT NUMBER

105550219COL-001

ISSUE DATE

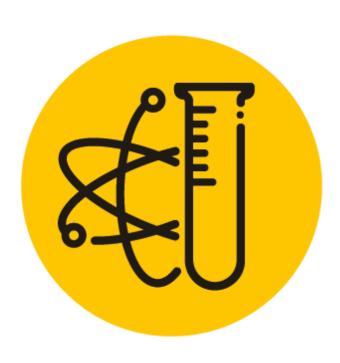
08/17/2023

TESTING FACILITY

Intertek Columbus Microbiology Laboratory 1717 Arlingate Ln. Columbus, OH 43228

DOCUMENT CONTROL NUMBER

RT-L-AMER-Test-8057 © 2023 INTERTEK





SECTION 1 REPORT

TEST METHOD | MICROBIAL REDUCTION RATE – IMPACTOR COLLECTION TEST

METHOD

CLIENT | KINETIC SOLUTIONS, INC

Wei Chen

9242 1/2 Hall Rd

Downey, CA 90241-5308

USA

LABORATORY PROJECT No. G105550219

LABORATORY REPORT No. 105550219COL-001

DATES TESTED 07/31/2023-08/02/2023

REPORT DATE 08/17/2023

SECTION 2 TEST SAMPLE

DESCRIPTION | Air Purifier

MODEL BioGS 2.0

ACQUISITION METHOD | Client Delivered Sample Via Mail

SERIAL NUMBER N/A

ARRIVAL DATE | 07/24/2023

SAMPLE ID | COL2203021017-003

CONDITION New/Unopened

DEVELOPMENT LEVEL | Production

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TEST SAMPLE PHOTO 1.



SECTION 3 TEST SUMMARY

A Natural Decay (control) run is performed by aspiration of a microbial suspension into a test chamber. Samples are taken at prescribed intervals (see Test Result Tables located in Section 4 of this report), onto suitable agar plates per the organism, with use of a BioStage Standard Impactor.

A Test Run is performed with use of the same steps, except the test unit is activated following aspiration of the microbial suspension.

All samples are incubated and enumerated, accounting for positive-hole correction of the impactor and standard deviation. A percent reduction value is obtained with use of the enumeration data, by comparison of the Natural Decay to the Test Run.

SECTION 4 CHALLENGE MICROORGANISMS

Name	Туре	ATCC Number	Source
A.niger	Mold (Fungi)	6275	ATCC
E.coli	Bacteria	11229	ATCC
MS2	Non-enveloped RNA Virus	15597B1	ATCC





SECTION 5 TEST RESULTS

Organism: E. coli

Unit Test
Setting:

Device On Fan High

Run	Time (Minute)	Raw Plate Count (C/PFU)	Corrected values with standard deviation	Reduction (%)
	0	TNTC	2117.9	
	15	TNTC	2117.9	
	30	TNTC	2117.9	
Natural	45	TNTC	2117.9	
Decay Run	60	TNTC	2117.9	
Decay Kuii	75	TNTC	2117.9	
	90	TNTC	2117.9	
	105	TNTC	2117.9	
	120	TNTC	2117.9	
	0	TNTC	3138.1	No Reduction
	15	190	268.0	87.3
Unit Test Run	30	18	19.0	99.1
	45	4	4.1	99.8
	60	<1	1.0	99.9
	75	<1	1.0	99.9
	90	<1	1.0	99.9
	105	<1	1.0	99.9
	120	<1	1.0	99.9





Organism: MS2

Unit Test
Setting: Device On Fan High

Setting:				
Run	Time (Minute)	Raw Plate Count (C/PFU)	Corrected values with standard deviation	Reduction (%)
	0	TNTC	2117.9	
	15	TNTC	2117.9	
	30	TNTC	2117.9	
	45	TNTC	2117.9	
Natural Decay Run	60	TNTC	2117.9	
Decay Kan	75	TNTC	2117.9	
	90	TNTC	2117.9	
	105	TNTC	2117.9	
	120	TNTC	2117.9	
Unit Test Run	0	TNTC	3138.1	No Reduction
	15	TNTC	3138.1	No Reduction
	30	TNTC	3138.1	No Reduction
	45	67	76.0	96.4
	60	2	2.1	99.9
	75	15	15.8	99.3
	90	<1	1.0	99.9
	105	4	4.1	99.8
	120	12	12.6	99.4





Organism: A. niger

Unit Test
Setting:

Device On Fan High

Run	Time (Minute)	Raw Plate Count (C/PFU)	Corrected values with standard deviation	Reduction (%)
	0	TNTC	2117.9	
	15	TNTC	2117.9	
	30	TNTC	2117.9	
Natural	45	TNTC	2117.9	
Decay Run	60	TNTC	2117.9	
Decay Kuii	75	TNTC	2117.9	
	90	TNTC	2117.9	
	105	74	78.8	
	120	64	67.2	
	0	TNTC	3138.1	No Reduction
	15	TNTC	3138.1	No Reduction
	30	17	18.0	99.2
Unit Test Run	45	2	2.1	99.9
	60	1	1.0	99.9
	75	<1	1.0	99.9
	90	<1	1.0	99.9
	105	<1	1.0	98.7
	120	<1	1.0	98.5



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SECTION 6 RESULT SUMMARY

ORGANISM E. coli

UNIT SETTING High

PERCENT NET REDUCTION [99.9% at 60 minutes]

ORGANISM MS2

UNIT SETTING | High

PERCENT NET REDUCTION [99.9% at 60 minutes]

ORGANISM A. niger

UNIT SETTING

High

PERCENT NET REDUCTION [99.9% at 45 minutes]

	Savannah Stein/Gabrielle	Reviewed	
Completed by:	Fenton	by:	Amanda Marunowski
Title:	Intern/Microbiologist	Title:	Microbiology team lead
Signature:	Savamah Stein	Signature	amoundo Marinowski
Date	08/03/2023 , 08/17/2023	Date:	08/21/2023