ATS LABS

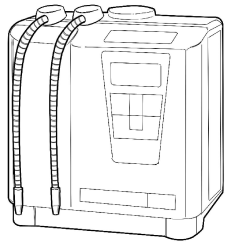
EXCELLENCE IN ANTIMICROBIAL TESTING

Results From The Lab

Health & Wellness Innovations

STUDY TITLE: Germicidal and Detergent Sanitizing Action of Disinfectants
TESTING LABORATORY: ATS Labs PROJECT NUMBER: A09385 / A11304

The environmentally friendly, disinfecting 2.5 pH Strong Acidic Water produced by a water ionizer* was tested for effectiveness in killing five different types of bacteria: Staph, E-Coli, Salmonella, MRSA & CRKP. 2.5 pH Strong Acidic Water is non-toxic, yet strong enough to kill germs. But, because it is water, it can be safely used on fresh fruits and vegetables, as well as meats and poultry, to disinfect against certain bacteria.



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SUMMARY OF PROTOCOLS

Test Substance:

Strong Acidic Water 2.5 pH,
Machine 1 (Serial #: 87100333)
Lot # 1 with pre-filter C-1000
Machine 2 (Serial #: 87100339)
Lot # 2 with pre-filter C-1000

Test Organisms:

Staphylococcus aureus (ATCC 6538)

Escherichia coli (ATCC 11229)

Salmonella typhi (ATCC 6539)

Methicillin Resistant *Staphylococcus aureus* – MRSA (ATCC 33592)

Carbapenem Resistant *Klebsiella pneumoniae* – CRKP (ATCC BAA-1705)

Exposure Time:

30 seconds

Exposure Temperature:

Room temperature (20.0°C)

Organic Soil Load:

5% fetal bovine serum

SUMMARY OF ANALYSIS

STAPH: Strong Acidic Water 2.5 pH, Machine 1 (Serial #: 87100333) Lot # 1 and Machine 2 (Serial #: 87100339) Lot # 2 with pre-filter C-1000, demonstrated a >99.999 percent reduction of *Staphylococcus aureus,* following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.

E-COLI: Strong Acidic Water 2.5 pH, Machine 1 (Serial #: 87100333) Lot # 1 and Machine 2 (Serial #: 87100339) Lot # 2 with pre-filter C-1000, demonstrated a >99.999 percent reduction of *Escherichia coli,* following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.

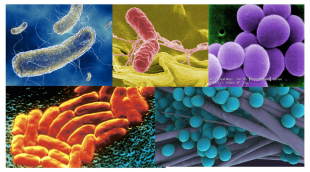
SALMONELLA: Strong Acidic Water 2.5 pH, Machine 1 (Serial #: 87100333) Lot # 1 and Machine 2 (Serial #: 87100339) Lot # 2 with pre-filter C-1000, demonstrated a >99.999 percent reduction of *Salmonella typhi,* following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.

MRSA: Strong Acidic Water 2.5 pH, Machine 1 (Serial #: 87100333) Lot # 1 and Machine 2 (Serial #: 87100339) Lot # 2 with pre-filter C-1000, demonstrated a >99.999 percent reduction of Methicillin Resistant *Staphylococcus aureus* – MRSA, following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.

CRKP: Strong Acidic Water 2.5 pH, Machine 1 (Serial #: 87100333) Lot # 1 and Machine 2 (Serial #: 87100339) Lot # 2 with pre-filter C-1000, demonstrated a >99.999 percent reduction of Carbapenem Resistant *Klebsiella pneumoniae* – CRKP following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.

* Not every consumer water ionizer is capable of producing 2.5 pH Strong Acidic Water. Consumers should be sure the water ionizer they are considering is able to produce this water. Any ionizer claiming to be able to produce 2.5 pH water should be able to provide consumers with independent lab test results proving the effectiveness of their 2.5 pH water.

SUMMARY OF EFFICACY RESULTS



STAPH: Strong Acidic Water 2.5 pH demonstrated efficacy of two lots against Staphylococcus aureus, and therefore, meets the requirements set forth by the U.S. EPA for sanitizer label claims following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.

E-COLI: Strong Acidic Water 2.5 pH demonstrated efficacy of two lots against Escherichia coli, and therefore, meets the requirements set forth by the U.S. EPA for sanitizer label claims following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.

SALMONELLA: Strong Acidic Water 2.5 pH demonstrated efficacy of two lots against Salmonella typhi, and therefore, meets the requirements set forth by the U.S. EPA for sanitizer label claims following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.

MRSA: Strong Acidic Water 2.5 pH demonstrated efficacy of two lots against Methicillin Resistant Staphylococcus aureus – MRSA, and therefore, meets the requirements set forth by the U.S. EPA for sanitizer label claims following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.

CRKP: Strong Acidic Water 2.5 pH demonstrated efficacy of two lots against Carbapenem Resistant *Klebsiella pneumoniae* – CRKP, and therefore, meets the requirements set forth by the U.S. EPA for sanitizer label claims following a 30 second exposure time at room temperature (20.0°C) in the presence of a 5% fetal bovine serum organic soil load.