



# Orbio® os3 MultiMicro™ 200\* Efficacy Summary

Tested to United States EPA standards for disinfectants for use on hard non-porous surfaces

ONE-STEP CLEANER-DISINFECTANT		
CLAIM	MICROORGANISM	RELEVANCE OF ORGANISM
<b>ONE-STEP CLEANER-DISINFECTANT</b> <ul style="list-style-type: none"> <li>• 10 minute exposure time</li> <li>• 5% organic soil</li> <li>• 400 ppm AOAC hard water</li> <li>• AOAC Methods 955.15, 955.14, and 964.02<sup>1</sup></li> </ul>	<i>Staphylococcus aureus</i>	Efficacy is required by the EPA against these bacteria for broad-spectrum and hospital disinfectant claims.
	<i>Salmonella enterica</i>	
	<i>Pseudomonas aeruginosa</i>	
<b>BACTERICIDAL</b> <ul style="list-style-type: none"> <li>• 10 minute exposure time</li> <li>• 5% organic soil</li> <li>• 400 ppm AOAC hard water</li> <li>• AOAC Methods 955.15, 955.14, and 964.02<sup>1</sup></li> </ul>	<i>Acinetobacter baumannii</i> -MDR	Efficacy is demonstrated against these bacteria, which are resistant to many antibiotics including vancomycin, methicillin, and carbapenem, (multi-drug resistant).
	<i>Klebsiella pneumoniae</i> -NDM-1, CRE	
	<i>Staphylococcus aureus</i> , MRSA	These bacteria cause different kinds of infections, including community-associated and nosocomial (healthcare-associated) infections, bloodstream (sepsis), and pneumonia.
	<i>Staphylococcus aureus</i> VISA	
	<i>Enterococcus faecalis</i> VRE	
<i>Burkholderia cepacia</i>		
<b>FUNGICIDAL</b> <ul style="list-style-type: none"> <li>• 10 minute exposure time</li> <li>• 5% organic soil</li> <li>• 400 ppm AOAC hard water</li> <li>• AOAC Methods 955.15 (modified for fungi)<sup>1</sup></li> </ul>	<i>Trichophyton mentagrophytes</i> (Athlete's Foot Fungus)	Efficacy is required by the EPA against this fungus for claims against pathogenic fungi.
<b>VIROCIDAL</b> <ul style="list-style-type: none"> <li>• 10 minute exposure time</li> <li>• 5% organic soil</li> <li>• 400 ppm AOAC hard water</li> <li>• ASTM Method E-1053<sup>1</sup></li> </ul>	<b>NON ENVELOPED VIRUSES</b>	
	Poliovirus	Efficacy against poliovirus demonstrates virucidal activity against an organism that is highly resistant to inactivation by disinfectants.
	Feline Calicivirus (Surrogate for Human Norovirus)	Efficacy against this virus demonstrates virucidal activity, which is recognized by the EPA for claims against Human Norovirus, which can cause gastroenteritis, also known as "food-poisoning" or "stomach-flu".
	Rhinovirus (Common Cold Virus)	Efficacy against this virus demonstrates virucidal activity against a virus which can cause the common cold.
	<b>ENVELOPED VIRUSES</b>	
	Bovine Viral Diarrhea virus (Surrogate for Human Hepatitis C virus)	Efficacy against these viruses demonstrates virucidal activity, which is recognized by the EPA for claims against the blood-borne pathogens Human Hepatitis C virus, and Human Immunodeficiency virus.
	Human Immunodeficiency virus (HIV)	
	Influenza A (H1N1) virus	Efficacy against this virus demonstrates virucidal activity against a virus which can cause seasonal influenza and viral respiratory infections
	Herpes Simplex virus (HSV-2)	Efficacy against this virus demonstrates virucidal activity against a virus which can cause herpes.

This document is intended to provide information about the efficacy testing for MultiMicro 200 performance. Information in the Relevance of Organism column is for educational purposes only, and is not intended to claim control or prevention of disease.

## Orbio® os3 MultiMicro™ 200\* Overview, continued

FOOD CONTACT SURFACE SANITIZER		
CLAIM	MICROORGANISM	RELEVANCE
<b>FOOD CONTACT SURFACE SANITIZER</b> <ul style="list-style-type: none"> <li>• 1 minute exposure time</li> <li>• 400 ppm AOAC hard water</li> <li>• AOAC Method 955.16<sup>2</sup></li> </ul>	<i>Salmonella enterica</i> Typhi	Efficacy indicates appropriate for use as a food contact surface sanitizer on pre-cleaned hard non-porous surface of food processing equipment, utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage areas, display equipment and other hard non-porous surfaces in food processing areas or restaurants.
	<i>Listeria monocytogenes</i>	

NON-FOOD CONTACT SURFACE SANITIZER		
CLAIM	MICROORGANISM	RELEVANCE
<b>NON-FOOD CONTACT SURFACE SANITIZER</b> <ul style="list-style-type: none"> <li>• 5 minute exposure time</li> <li>• 5% organic soil</li> <li>• 400 ppm AOAC hard water</li> <li>• ASTM E-1153<sup>2</sup></li> </ul>	<i>Staphylococcus aureus</i>	Efficacy indicates appropriate for use as a non-food contact surface sanitizer.
	<i>Enterobacter aerogenes</i>	

\* MultiMicro 200 refers to MultiMicro disinfectant/sanitizer that has been diluted by the Orbio® os3 Dispenser to the ready-to-use form containing 200 ppm free available chlorine

<sup>1</sup> Environmental Protection Agency (EPA), Office of Chemical Safety and Pollution Prevention, Product Performance Test Guidelines, OCSPP 810.2000 and OCSPP 810.2200

<sup>2</sup> Environmental Protection Agency (EPA), Office of Chemical Safety and Pollution Prevention, Product Performance Test Guidelines, OCSPP 810.2000 and OCSPP 810.2300

**This document is intended to provide information about the efficacy testing for MultiMicro 200 performance. Information in the Relevance of Organism column is for educational purposes only, and is not intended to claim control or prevention of disease.**

The os3 system is regulated as a pesticide device manufactured at EPA establishment number 090643-KY-001.



Orbio Technologies, 701 North Lilac Drive, Minneapolis, MN 55422 USA  
 800 553 8033 • 763 540 1315 • orbio.com

1.905.003.am.en