

EFFICACY DATA

Wipes.com Disinfectant Wipes

EPA Registration Number
1839-190-86745

BACTERICIDAL DATA:

Test Method: AOAC Germicidal Spray Products as Disinfectants modified for Pre-saturated or Impregnated Disinfectant Towelettes

Test Conditions: Ready-To-Use (RTU), 5 minute contact time, 5% organic soil load, room temperature, glass slide carrier substrates

Results:

Test Organism	Sample	No. of Carriers	
		Exposed	Positive
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	A	60	0
	B	60	0
	C	60	1
<i>Salmonella enterica</i> (ATCC 10708)	A	60	0
	B	60	0
	C	60	0
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	0
	B	60	0
	C	60	1
Community Associated Methicillin resistant <i>Staphylococcus aureus</i> (CA-MRSA) Genotype USA300	A	10	0
	B	10	0
Community Associated Methicillin resistant <i>Staphylococcus aureus</i> (CA-MRSA) Genotype USA400	A	10	0
	B	10	0
<i>Escherichia coli</i> O157:H7 (ATCC 43895)	A	10	0
	B	10	0
	C	10	0
<i>Klebsiella pneumoniae</i> New Dehli Metallo-Beta Lactamase (NDM-1) Carbapenem Resistant [Antibiotic Resistance to Penicillin, Gentamicin, Ceftazidime]	A	10	0
	B	10	0
Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) (ATCC 33591)	A	10	0
	B	10	0
<i>Streptococcus pyogenes</i> (ATCC 19615)	A	10	0
	B	10	0
	C	10	0
Vancomycin intermediate resistant <i>Staphylococcus aureus</i> (VISA) (ATCC 700699)	A	10	0
	B	10	0
Vancomycin resistant <i>Enterococcus faecium</i> (VRE) (ATCC 51559)	A	10	0
	B	10	0

Conclusion: Under the conditions of these investigations, STEPAN® Disinfectant Wipe demonstrated **disinfectant** activity against *Pseudomonas aeruginosa*, *Salmonella enterica*, *Staphylococcus aureus*, Community Associated Methicillin resistant *Staphylococcus aureus* (CA-MRSA) Genotype USA300, Community Associated Methicillin resistant *Staphylococcus aureus* (CA-MRSA) Genotype USA400, *Escherichia coli* O157:H7, *Klebsiella pneumoniae* New Dehli Metallo-Beta Lactamase (NDM-1) Carbapenem Resistant, Methicillin resistant *Staphylococcus aureus* (MRSA), *Streptococcus pyogenes*, Vancomycin intermediate resistant *Staphylococcus aureus* (VISA) and Vancomycin resistant *Enterococcus faecium* (VRE) according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

VIRUCIDAL DATA:

Test Method: *U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, 1982, Section 91-30 (d) (5), “Disinfectants – Efficacy against Viruses”, pp. 72-76.

†Protocols for Testing the Efficacy of Disinfectants against Hepatitis B Virus (HBV) (EPA, Federal Register, Vol. 65, No. 166, 8/25/2000, p. 51828).

‡Protocol for Testing Disinfectants against Hepatitis C Virus using Bovine Viral Diarrhea Virus as approved by the U.S. EPA on August 15, 2002.

^ ASTM International E1053-20 “Standard Test Method to Assess Virucidal Activity of Chemicals Intended for Disinfection of Inanimate, Nonporous Environmental Surfaces”

Test Conditions: Ready-To-Use (RTU), 5% organic soil load, room temperature, glass petri dish substrates

Results:

Test Organism	Contact Time	Sample	Titer Reduction
‡Bovine Viral Diarrhea Virus (BVDV)	5 minutes	A	$\geq 3.69 \log_{10}$
		B	$\geq 3.69 \log_{10}$
†Duck Hepatitis B Virus (DHBV)	5 minutes	A	$\geq 4.14 \log_{10}$
		B	$\geq 4.14 \log_{10}$
†Hepatitis B Virus (HVB)	5 minutes	A	$\geq 4.14 \log_{10}$
		B	$\geq 4.14 \log_{10}$
‡Hepatitis C Virus (HCV)	5 minutes	A	$\geq 3.69 \log_{10}$
		B	$\geq 3.69 \log_{10}$
*Herpes Simplex Virus 1 (HSV-1) (ATCC VR-260)	5 minutes	A	$\geq 4.99 \log_{10}$
		B	$\geq 4.99 \log_{10}$
		C	$\geq 4.99 \log_{10}$
*Herpes Simplex Virus 2 (HSV-2) (ATCC VR-734)	5 minutes	A	$4.76 \log_{10}$
		B	$4.76 \log_{10}$
		C	$4.76 \log_{10}$
*Human Coronavirus (ATCC VR-740, strain 229E)	10 minutes	A	$\geq 4.75 \log_{10}$
		B	$\geq 3.75 \log_{10}$
*Human Immunodeficiency Virus Type 1 (HIV-1)	5 minutes	A	$\geq 3.22 \log_{10}$
		B	$\geq 3.22 \log_{10}$
*Influenza A2/Japan/305/57 (H2N2)	5 minutes	A	$\geq 4.83 \log_{10}$
		B	$\geq 4.83 \log_{10}$
		C	$\geq 4.83 \log_{10}$
^SARS-CoV-2 (USA-WA1/2020)	30 seconds	A	$> 4.00 \log_{10}$
		B	$> 4.00 \log_{10}$
		C	$> 4.00 \log_{10}$
*Pandemic 2009 H1N1 Influenza A Virus	(Refer to NOTE below.)		

Conclusion: Under the conditions of this investigation, STEPAN® Disinfectant Wipe demonstrated **virucidal** activity against Bovine Viral Diarrhea Virus (BVDV), Duck Hepatitis B Virus (DHBV), Hepatitis B Virus (HVB), Hepatitis C Virus (HCV), Herpes Simplex Virus 1, Herpes Simplex Virus 2, Human Coronavirus, Human Immunodeficiency Virus Type 1 (HIV-1), Influenza A2/Japan, SARS-CoV-2, and Pandemic 2009 H1N1 Influenza A Virus according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

NOTE: Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.

FUNGICIDAL DATA:

Test Method: AOAC Fungicidal Activity of Disinfectants

Test Conditions: Ready-To-Use (RTU), 3 minute contact time, 5% organic soil load, room temperature, glass slide substrates

Results:

<u>Test Organism</u>	<u>Sample</u>	<u>No. of Carriers</u>	
		<u>Exposed</u>	<u>Positive</u>
<i>Trichophyton mentagrophytes</i> (ATCC 9533)	A	10	0
	B	10	0
	C	10	0

Conclusions: Under the conditions of this investigation, STEPAN® Disinfectant Wipe demonstrated **fungicidal** activity against *Trichophyton mentagrophytes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

NON-FOOD CONTACT SANITIZATION DATA:

Test Method: Sanitizer Test for Inanimate Non-Food Contact Surfaces
(EPA DIS/TSS-10, 07 Jan 82)

Test Conditions: Ready-To-Use (RTU), 5% organic soil load, room temperature

Results:

<u>Test Organism</u>	<u>Sample</u>	<u>Contact Time</u>	<u>% Kill</u>
<i>Escherichia coli</i> O157:H7 (ATCC 43895)	A	15 seconds	>99.9
	B		>99.9
	C		>99.9
<i>Klebsiella pneumoniae</i> (ATCC 4352)	A	15 seconds	>99.9
	B		>99.9
	C		>99.9
<i>Listeria monocytogenes</i> (ATCC 35152)	A	15 seconds	>99.9
	B		>99.9
	C		>99.9
<i>Staphylococcus aureus</i> (ATCC 6538)	A	15 seconds	>99.9
	B		>99.9
	C		>99.9
<i>Campylobacter jejuni</i> (ATCC 29428)	A	60 seconds	>99.9
	B		>99.9
	C		>99.9

Conclusion: Under the conditions of these investigations, STEPAN® Disinfectant Wipe demonstrated **sanitizing** activity against *Escherichia coli* O157:H7, *Klebsiella pneumoniae*, *Listeria monocytogenes*, *Staphylococcus aureus* and *Campylobacter jejuni* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a sanitizer.