

KILL LIST

EPA STANDARD: GOOD LABORATORY PRACTICES (GLP)

VIRUCIDAL HARD-SURFACE TEST (VIRUS)

<u>ABREV.</u>	<u>PASSED</u>	<u>FAILED</u>	<u>LABORATORY</u>	<u>KILL TIME</u>	<u>On EPA Label?</u>	<u>% kill rate</u>
SARS-CoV-2	1/5/2021		ANALYTICAL LAB GROUP	60 SEC.	Yes	>99.9%
Avian Influenza A Virus (H5N1)	H5N1	3/12/2025	MICROCHEM	2 MIN.		100.00%
CANINE DISTEMPER VIRUS	CDV	9/3/2019	MICROBAC	10 MIN.	No	>99.999%
HEPATITUS A Virus STRAIN HM175/18F U OF OTTAWA	HAV	12/6/2018	MICROBAC	10 MIN.	Yes	>99.999%
HEPATITUS B Virus (DUCK) - SURROGATE FOR HUMAN	HBV	12/4/2018	MICROBAC	10 MIN.	Yes	>99.999%
HEPATITUS C Virus (BOVINE VIRAL DIARRHEA)	HCV	12/4/2018	MICROBAC	10 MIN.	Yes	>99.999%
(HIV-1) - HUMAN IMMUNODEFICIENCY VIRUS TYPE-1	HIV - 1	12/4/2018	MICROBAC	10 MIN.	Yes	>99.999%
CARBAPENEM-RESISTANT KIEBSIELLA PNEUMONIAE	CRKP	12/4/2018	MICROBAC	2 MIN.	Yes	>99.999%
INFLUENZA A VIRUS (H1N1) - AKA "SWINE FLU"	H1N1	12/4/2018	MICROBAC	2 MIN.	Yes	>99.999%
NOROVIRUS (Feline Calicivirus)	FCV	11/30/2015	MICROBAC	10 MIN.	Yes	>99.999%
NOROVIRUS (Murine Norovirus)	MNV	12/14/2015	MICROBAC	10 MIN.	Yes	>99.999%

AOAC GERMICIDAL SPRAY TEST (BACTERIA)

<u>ABREV.</u>	<u>PASSED</u>	<u>FAILED</u>	<u>LABORATORY</u>	<u>KILL TIME</u>	<u>On EPA Label?</u>	<u>% kill rate</u>
CARBAPENEM-RESISTANT ENTERBACTER	CRE	10/31/2018	EMSL	2 MIN.	Yes	>99.999%
ESCHERICHIA COLI	E.COLI	8/26/2019	MICROBAC	1 MIN.	Yes	>99.999%
LISTERIA MONOCYTOGENES		10/31/2018	EMSL	2 MIN.	Yes	>99.6%
MICROCCUS YUNNANENSIS		12/12/2019	MICROBAC	2 MIN.	No	>99.999%
PSEUDOMONAS AERUGINOSA		10/31/2018	EMSL	2 MIN.	Yes	>99.999%
PSEUDOMONAS ORYZIHABITANS		12/12/2019	MICROBAC	10 MIN.	Yes	>99.999%
SALMONELLA ENTERICA		10/31/2018	EMSL	2 MIN.	Yes	>99.8%
methicillin resistant STAPHYLOCOCCUS AUREUS	MRSA	11/29/2007	Silliker	1 MIN.	Yes	>99.999%
STAPHYLOCOCCUS AUREUS		10/31/2018	EMSL	1 MIN.	Yes	>99.999%
STAPHYLOCOCCUS EPIDERMIDIS		12/12/2019	MICROBAC	10 MIN.	Yes	>99.999%
PSEUDOMONAS ORYZIHABITANS	TB	10/31/2018	EMSL	10 MIN.	No	>99.999%
VANCOMYCIN-RESISTANT ENTEROCOCCUS	VRE	10/31/2018	EMSL	2 MIN.	No	>99.5%

AOAC GERMICIDAL SPRAY TEST (FUNGAL)

<u>ABREV.</u>	<u>PASSED</u>	<u>FAILED</u>	<u>LABORATORY</u>	<u>KILL TIME</u>	<u>On EPA Label?</u>	<u>% kill rate</u>
ALTERNANIA ALTERNATA		5/14/2020	MICROBAC	2 MIN.	No	>99.999%
CANDIDA ALBICANS		6/11/2019	MICROBAC	10 MIN.	No	>99.99%
CANDIDA AURIS		1/7/2020	MICROBAC	10 MIN.	No	>99.999%
CIADSPORIUM HERBARUM		4/29/2020	MIRCOBAC	2 MIN.	No	>99.999%
PENICILLIUM OXALLCUM		4/29/2020	MIRCOBAC	2 MIN.	No	>99.999%
TRIHOPYTON INTERDIGITALE (AKA: RINGWORM)		1/13/2020	MICROBAC	2 MIN.	No	>99.99%

GERMICIDAL AND DETERGENT SANITIZING (BACTERIA)

<u>ABREV.</u>	<u>PASSED</u>	<u>FAILED</u>	<u>LABORATORY</u>	<u>KILL TIME</u>	<u>On EPA Label?</u>	<u>% kill rate</u>
STAPHYLOCOCCUS AUREUS	S.AUREUS	8/27/2019	MICROBAC	60 SEC.	Yes	>99.999%
ESCHERICHIA COLI	E-COLI	8/27/2019	MICROBAC	60 SEC.	Yes	>99.999%

NON-FOOD CONTACT SOFT SURFACES (BACTERIA)

<u>ABREV.</u>	<u>PASSED</u>	<u>FAILED</u>	<u>LABORATORY</u>	<u>KILL TIME</u>	<u>On EPA Label?</u>	<u>% kill rate</u>
STAPHYLOCOCCUS AUREUS	S.AUREUS	10/15/2019	MICROBAC	60 SEC.	Yes	>99.999%
KLEBSIELLA PNEUMONIAE		10/15/2019	MICROBAC	10 MIN.	Yes	>99.999%

C-DIFF (CLOSTRIDIUM DIFFICILE SPORES TEST)

<u>ABREV.</u>	<u>PASSED</u>	<u>FAILED</u>	<u>LABORATORY</u>	<u>KILL TIME</u>	<u>On EPA Label?</u>	<u>% kill rate</u>
(EPA MLB SOP MB-31: with 5% organic load)	C - DIFF.	7/12/2019	MICROBAC		No	
(EPA MLB SOP MB-28: hard surface test with no organic load)	C - DIFF.	11/25/2019	ANALYTICAL LAB GROUP	10 MIN.	No	>99.999%
(EPA MLB SOP MB-28: hard surface test with no organic load)	C - DIFF.	3/31/2025	MICROBAC	2 MIN	<u>NO</u>	>99.999%