HHP™ Efficacy Studies

	ORGANISM	LOG REDUCTION	SPECIES	CARRIER TYPE
☐	*Bacillus atrophaeus* Surrogate for Anthrax	4.1 x 10^6	Bacterial Spores	*Porous*: Spore Strips
❍	*Clostridium sporogenes*	2.82 x 10^6	Bacterial Spores	*Porous*: Penni Cylinder, Silk Suture, Tyvek/Tyvek
❍	*Bacillus subtilis*	1.28 x 10^6	Bacterial Spores	*Porous*: Penni Cylinder, Silk Suture, Tyvek/Tyvek
☐	*Geobacillus stearothermophilus (7953)*	1.6 x 10^6	Bacterial Spores	*Non-Porous*: Tyvek/Mylar, stainless steel coupon
■	*Geobacillus stearothermophilus (12980)*	2.2 x 10^6	Bacterial Spores	*Non-Porous*: Tyvek/Tyvek, stainless steel disc
★	*Clostridium difficile (C. diff)*	1.0 x 10^6	Bacterial Spores	*Non-Porous*: Bead inoculum/ glass/ Tri-Part Soil load
▲	*Feline calicivirus* Surrogate for parvovirus	6.76 x 10^8	Non- Enveloped Virus	*Non-Porous*: Glass Agar ATTC BR-782
▲	Human norovirus	6.76 x 10^8	Non- Enveloped Virus	*Non-Porous*: Sterile Glass Petri dish
▲	Adenovirus Type 5 (ADV-5)	10^{10} $TCID_{50/ml}$: 9.98	Non- Enveloped Virus	*Non-Porous*: PVC; Resin-coated drywall; Lexan; Isolator glass; Epoxy resin flooring
■	*CVB3 (Coxsackievirus B3)*	>100,000 PFU	Non- Enveloped Virus	*Porous*: Mask inoculum
☆	*Calonectria henricotiae*	0/15 revived	Fungi	*Non-Porous*: Glass Plastic
☆	*Calonectria pseudonaviculata*	0/14 revived	Fungi	*Non-Porous*: Glass Plastic
★	*Pseudomonas aeruginosa*	3.2 x 10^6	Bacteria	*Non-Porous*: Glass Agar; 5% fetal serum
☆	*Rathayibacter agropyri*	10^7	Bacteria	*Non-Porous*: Glass Plastic
☆	*Rathayibacter iranicus*	10^7	Bacteria	*Non-Porous*: Glass Plastic
☆	*Pseudomonas marginalis*	10^9	Bacteria	*Non-Porous*: Glass Plastic
☆	*Xanthomonas campestris*	10^{10}	Bacteria	*Non-Porous*: Glass Plastic
★	*Staphylococcus aureus*	3.2 x 10^6	Bacteria	*Non-Porous*: 5% fetal bovine serum; glass slide
■	*SARS-CoV-2 (COVID-19)*	>900,000 $TCID_{50}$	Enveloped Virus	*Porous*: Mask inoculum
■	*HSV-1 (Herpes Simplex Virus)*	>100,000 PFU	Enveloped Virus	*Porous*: Mask inoculum
■	*PHI6 Pseudomonas bacteriophage*	>100,000 PFU	Enveloped Virus	*Porous*: Mask inoculum
▲	Murine Minute Virus (MMV)	10^7 $TCID_{50/ml}$: 6.73	Enveloped Virus	*Non-Porous*: UPVC; Resin-coated drywall; Lexan; Isolator glass; Epoxy resin flooring
☆	*Phytophthora cactorum*	0/36 revived	Oomycetes	*Non-Porous*: Glass Plastic
☆	*Phytophthora megakarya*	0/36 revived	Oomycetes	*Non-Porous*: Glass Plastic
☆	*Phytopythium helicoides*	0/36 revived	Oomycetes	*Non-Porous*: Glass Plastic

★ EPA Approved
▲ GLP Study Criteria
■ Publication Studies
❍ EPA Approved Lab
☐ GCMG Labs
☆ Federal High Containment Lab

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CURIS DECONTAMINATION

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