

# ICP ERG: SOLUTIONS FOR 150 PATHOGENS: VIRUSES, BACTERIA & MOLD

ICP offers a unparalleled range of solutions for pathogens in the indoor built environment.\*



**IAQ 2500** | IAQ 2500 is an EPA-designated 1-minute contact time for COVID-19 surface cleaning & disinfection proven by testing specifically against the CoV-2 emergent coronaviruses.























**DECON 30** | Decon 30 is the botanical product pros use to restore healthy conditions in homes, workspaces, and public places. Decon 30 is registered to kill viruses, bacteria and mold and is the professional's first choice for water damage restoration.


**SHOCKWAVE READY-TO-USE** | Shockwave RTU is the product professionals employ with confidence when specialized environmental cleaning is vital to restore healthy conditions in homes, workspaces, and public places.

**BOTANICAL DISINFECTANT** | Botanical Disinfectant uses thyme oil that has been specially grown, distilled & blended to exacting specifications. This technology is proven to kill over 99.99+% of germs yet does not require PPE.


**SHOCKWAVE CONCENTRATE** | Shockwave Concentrate is a versatile disinfectant that kills mold, bacteria and viruses; has an extraordinary 120+ kill claims for pathogenic microbes; and is included on the EPA List N.





































**BOTANICAL DISINFECTANT WIPES** | Botanical Disinfectant Wipes are employed by professionals when specialized environmental cleaning involves touch points and other surfaces that require detailed attention.

MICROBE	SURFACE VIABILITY	ETIOLOGY	ANNUAL CASES (USA)						
Acinetobacter	3 days up to 5 months	meningitis, septicemia, lung & eye infections	40,000-80,000						
Adenovirus	7 days up to 3 months	nonspecific viral respiratory illness, diarrhea, conjunctivitis (eye inflammation), cystitis, and rashes.	≈2-250						
Aspergilles niger	30+ days	lung infections; associated with asthma.	15,000						
Bacillus cereus	100+ years	gastrointestinal infection and intoxication.	≈84,000						
Bordetella "100 day cough"	3-10+ days	bronchitis & whooping cough in humans and can cause kennel cough in dogs.	50,000-60,000						
Campylobacter jejuni	6 days	abdominal pain, nausea, vomiting, diarrhea, and fever.	1.5M						
Candida	4 months	opportunistic oral and genital infections	25,000						

										
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Canine Coronavirus (CRVoV)	hours up to days	upper respiratory and gastrointestinal infections in dogs	data not reported						✓	
Canine Parvovirus	2 months indoors up to years outdoors	Causes fatal diarrhea, vomiting, fever, loss of appetite in dogs	20,000	✓						
Corynebacterium ammoniagenes	7 days up to 6 months	causes diaper rash; surrogate for Diphtheria	Virtually eradicated in USA	✓		✓		✓		
Cryptococcus	24 weeks	meningitis in the immunocompromised; pulmonary disease	30,000			✓		✓		
Cytomegalovirus	8 hours	infection of the eyes, throat, and salivary glands	35,000 infants born infected			✓		✓		
Enterobacter aerogenes	24 hours	causes opportunistic, frequently healthcare associated infections of the skin and skin tissue	180-1,200 drug resistant cases		✓	✓		✓	✓	
Enterococcus spp.	5 days -2½ years	opportunistic, severe infections of the skin, skin tissues, gastrointestinal tract, and bloodstream	175,000			✓		✓		
Enterococcus faecalis (Vancomycin Resistant-VRE)	5 days up to 30 months	causes opportunistic, but often severe infections of the skin, skin tissues, gastrointestinal tract, and bloodstream	390-2,600			✓		✓		
Escherichia coli	1.5 h to 16 months	causes a variety of gastrointestinal infection	265,000	✓	✓	✓	✓	✓	✓	
Flavobacterium meningosepticum	2 to 4 hours	causes meningitis in humans	≈800-1,200			✓		✓		
Hepatitis	HEP A: 2 h up to 60 days	an inflammatory condition of the liver	HEP A: 3,000	✓		✓		✓		
	HEP B: <1 WEEK		HEP B: 1.5M	✓		✓		✓		
	HEP C: 6 weeks		HEP C: 3M	✓		✓		✓		
Herpes Simplex type 1 Virus/type 2 Virus	<2 h up to 8 weeks	causes small, painful ulcers on the human lips, mouth, and occasionally the ears and genital areas	776,000			✓		✓		
HIV	2 hours to 7 days	long term infection that depresses the immune system. After years, the virus overrides the hosts immune system	30,000-40,000	✓	✓	✓	✓	✓		




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Human Coronavirus 229	5 days	gastrointestinal infections in humans and is responsible for about 30% of common colds	300M						
Influenza	2 days - 4 weeks	A, B, C strains recombine annually; causes the flu in humans	9-45M						
Klebsiella oxytoca	2 h to >30 months	causes community-acquired meningitis and brain abscesses symptoms include: headaches, fever, altered consciousness, seizures, and septic shock	≈ 60,000						
Legionella	several hours	Legionnaires' disease, which causes pneumonia-like symptoms, and Pontiac fever, which causes influenza-like symptoms	10,000						
Listeria	1 day to 1 month	Considered a potent food pathogen. Found in raw meat and poultry. Infections can result in meningitis or sepsis	1,500						
Measles (Rubeola)	2 hours	severe infection of humans that is characterized by cough, runny nose, and red eyes. A skin rash is also common. Spots inside the mouth are also indicative of this infection	1,000						
MRSA	72 hours	cause of staph infection that is difficult to treat because of resistance to some antibiotics. Staph infections—including those caused by MRSA—can spread in hospitals	120,000						
MRSA-CA	72 hours	Drug-resistant staph infection unrelated to healthcare	≈ 8,000 - 9,000						
Mumps Paramyxovirus	2 hours	Mumps usually involves pain, tenderness, and swelling in one or both parotid salivary glands (cheek and jaw area).	1,000-9,000						
Neisseria gonorrhoeae	1-3 days	sexually-transmitted infection; N. gonorrhoeae can cause infection of the genitals, throat, and eyes	500,000 - 2M						

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Norovirus (Norwalk Virus; Feline calicivirus)	14-42 days	causes outbreaks of gastroenteritis and are spread frequently through contaminated food or water	19-21M						
Poliovirus Type 1	4 hours up to 8 days	causes a severe nerve infection in humans	N/A (<500 globally)						
Proteus mirabilis	1-3 days	causes urinary tract problems in humans as well as bloodstream and wound infections; makes urine more alkaline, can cause kidney stones leading to renal failure.	≈280,000						
Pseudomonas spp.	6 hours - 16 months	Causes wound infections, meningitis, pneumonia and eye infections. Required for Hospital Disinfectants	50,000						
Rabies	2 minutes up to 3 hours	causative agent for "rabies", an encephalitis that causes neuronal degeneration-- almost always fatal	≈5,000						
Rhinovirus	3 hours	causes 60% of US colds and upper respiratory infections. Less commonly, these viruses may cause bronchilitis or pneumonia	600M						
Rotavirus	6 up to 60 days	causes an acute, selflimiting gastrointestinal disease in humans that primarily affects children	2.7M						
Respiratory Syncytial Virus (RSV)	≤ 6 hours	causes fever, runny nose, cough, and sometimes wheezing in young children	75,000 to 125,000						
Salmonella	4 hours - 4 days	a common bacterial disease that affects the intestinal tract	1.35M						
SARS-CoV-1	up to 9 days	symptoms may include high fever, headache, overall feeling of malaise, mild to severe respiratory symptoms and general body aches	N/A - present day (8 in US of 8,000 globally in 2004)						
SARS-CoV-2	28 days	New 2019-2020 global betacoronavirus pandemic, causes fever, sore throat, respiratory symptoms, and other unknown symptoms	30M+						



MICROBE	SURFACE VIABILITY	ETIOLOGY	ANNUAL CASES (USA)						
<b>Serratia marcescens</b>	3 days up to 2 months; on dry floor: 5 weeks	causes conjunctivitis, keratitis, endophthalmitis, and tear duct infections in humans	3,000 to 4,000			✓		✓	
<b>Shigella dysenteriae</b>	2 days up to 5 months	causes Dysentery, severe gastrointestinal disease in humans, characterized by watery diarrhea, intestinal cramps, and fever. Infections with these bacteria usually last 1-1.5 months and can be spread easily to others via contamination of environmental surfaces	25,000 to 35,000			✓		✓	
<b>Staphylococcus Aureus</b>	9-12 days	Causes wound infections, septicemia, endocarditis, meningitis, osteomyelitis and pneumonia.	1.2M	✓	✓	✓	✓	✓	✓
<b>Streptococcus pneumoniae</b>	1 day up to 30 months	causes a variety of infections in humans, including pneumonia, bronchitis, ear infections and more seriously, brain abscesses, meningitis, septic arthritis, and heart infections	500,000					✓	
<b>Streptococcus pyogenes (Necrotizing Fasciitis)</b>	3 days up to 6.5 months	causes "Strep Throat" and skin infections in humans	11,000 to 24,000	✓		✓		✓	
<b>Trichophyton interdigitale</b>		Also known as athlete's foot/ringworm; causes skin infections in humans	9-49M	✓	✓	✓	✓	✓	
<b>Tuberculosis (TB)</b>	4 months	TB usually affects the lungs, but it can also affect other parts of the body, such as the brain, the kidneys, or the spine	8,000-9,000	✓			✓		
<b>VRE (Vancomycin resistant Enterococcus faecalis)</b>	5 days up to 30 months	causes rapid pulse and breathing, nausea and vomiting, diarrhea, decreased urination and urinary tract infections	20,000	✓					





MICROBE	SURFACE VIABILITY	ETIOLOGY	ANNUAL CASES (USA)						
VISA (Vancomycin intermediate resistant <i>Staphylococcus aureus</i> )	7 days up to 7 months	cause of staph infection that is difficult to treat because of resistance to some antibiotics	data not reported	✓				✓	
VRSA - <i>Staphylococcus aureus</i> (Vancomycin Resistant)	7 days up to 7 months	cause of staph infection that is difficult to treat because of resistance to some antibiotics	≈ 43,000					✓	
<i>Yersinia enterocolitica</i>	Up to 64 weeks	causes plague	Approx. 10-100	✓		✓		✓	

\* The information herein is intended to provide a useful cross reference to aid in the selection of effective disinfectants against specific pathogenic microbes. However, it is impossible in this format to precisely replicate the language and conditions as delineated by each specific EPA registered label and provide specific source citations on all data. To obtain citations of data points, please email: [specifications@icpgroup.com](mailto:specifications@icpgroup.com). Explore concerns and questions prior to use of any disinfecting product, with your ICP Building Solutions Group Sales Representative or through the contact information outlined in the document footer. Information in the surface viability column is intended to reflect a consensus of public sources available in regards to the duration of time on an inanimate surface during which the microorganism is considered infectious. Information in the column concerning annual cases in the United States is based upon information available from government and public sources, but obviously cannot reflect the variations season to season, year to year and should be taken as a general guide to the degree which the microorganism is prolific in the US population. By implicit or explicit use of this document, the user acknowledges that ICP cannot be held responsible in any form for any outcome regardless of whether the content and information conveyed by this document was properly or improperly executed.



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