

WE PROTECT CRITICAL INFRASTRUCTURE

mPact™ Environmental Solutions offers a proprietary two-step solution for the disinfection and long-term protection against numerous viral, bacterial and fungal infestation or infection. This solution is changing the way the world tackles microbial contamination and is protecting millions around the globe.

mPale™

The biggest weapon in our arsenal, mPale™, is our exclusive antimicrobial agent that controls mold and bacteria without using a poison, instead controlling such microbes by puncturing cell walls on a microscopic level. mPale™'s unique spiked molecular structure is imperceptible to human touch but is highly effective against virtually all viral, bacterial and fungal infestations, including coronavirus.

Unlike chemical poisons, mPale™, once it is sprayed and bonds to the surface, it retains its effectiveness for 30 days. mPale™ is colorless, odorless, and can be applied to wood or steel, sheet-rock, carpets, upholstery, and painted surfaces in addition to plastic, leather, and fiber. mPale™ is registered with the EPA and is available only through our authorized affiliates.

mPerial™

Our exclusive cleaner, sanitizer, and deodorizer, mPerial™ is registered with the EPA as a virucide and fungicide. mPerial™ may be used in food preparation areas and many other areas, and is specifically formulated for compatibility with our mPale™ antimicrobial.

mPale™ ADVANTAGES

- ✓ Less invasive
- ✓ More effective
- ✓ Faster
- ✓ Lower costs
- ✓ Longer lasting
- ✓ More versatile
- ✓ Eco-friendly
- ✓ Moisture resistant

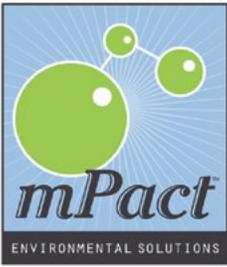


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THE ONLY LONG TERM SOLUTION THAT INHIBITS ALL MICROBIAL GROWTH



HOW IT WORKS

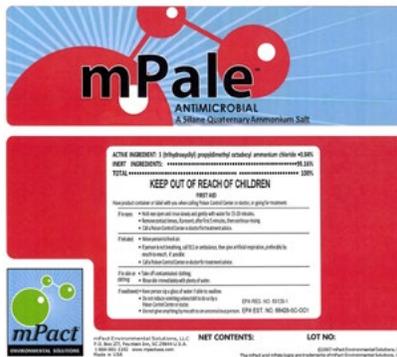
OUR PRODUCTS

CONTACT US

mPale™ and mPerial™ are our exclusive two step process that inhibits and prevents the spread of virus, mold and bacteria not with poison, but by puncturing cell walls on a microscopic level. mPale™'s unique spiked molecular structure is imperceptible to human touch but is highly effective against virtually all virus, including human coronavirus, H1N1, influenza, molds and most bacteria. These EPA registered products, mPerial™ and mPale™ are available only through mPact™ Environmental Solutions.

mPale™ Antimicrobial is colorless, odorless, and can be applied to wood or steel framing, sheet-rock, carpets, upholstery and painted surfaces. The real beauty of this product is that, once it is sprayed on, it bonds to the surface and retains its effectiveness for a minimum of 30 days.

Antimicrobial 2-Step Process



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IS IT AVAILABLE?



mPact™ is committed to working with government agencies, municipalities, healthcare facilities, schools and more to prioritize supply and identify areas of critical infrastructure.

PROACTIVE

1

Ongoing Protection

EQUIPMENT

2

Standard Cleaning Equipment

TRAINING

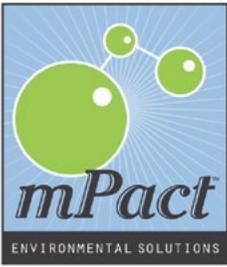
3

On-Site Training

PPE

4

Gloves and Eye Protection



THIRD PARTY EUROPEAN LAB VALIDATION FOR IMMEDIATE RELEASE

February 28, 2020

mPact™ Environmental Solutions, LLC is pleased to announce that it has today received a notification of the laboratory tests undertaken against COVID-19 surrogate. The results show that active ingredients in the mPale™ Antimicrobial are > 99.99% effective against COVID-19 surrogate.

COVID-19 has become a global concern, in particular as it has been shown to survive on surfaces for up to 9 days. mPact™ products have been successfully tested against a variety of pathogens for up to 30 days on surfaces and 24 hours on hands.

mPale™ and mPerial™ active ingredients had been previously tested against bovine coronavirus (the nominated surrogate for MERS), this latest strain required new testing.

Two separate tests were completed to EN Standard 14476:2013+A2:2019. The first was against Vaccinia; sometimes referred to as the 'mother ship' of double enveloped viruses (that are particularly hard to inactivate), with the subsequent test against the nominated (and globally accepted) surrogate for COVID19; feline coronavirus.

EN14476 is the European Standard that applies to products within the medical area including hygienic hand rubs, hygienic hand wash, instrument disinfection by immersion, surface disinfection by wiping, spraying, flooding or other means.

RESULTS:

The test against Vaccinia confirmed efficacy of > 4Log (greater than 99.99% efficacy) for the active ingredients in mPale™

The second test against the COVID-19 surrogate, feline coronavirus, confirmed efficacy at 4.33Log (greater than 99.99% efficacy).

The members of the family Coronaviridae are enveloped and have positive sense RNA genome. Coronaviruses have a distinct morphology with an outer 'corona' of embedded enveloped spikes. These viruses cause a broad spectrum of animal and human disease and are particularly difficult to inactivate.

mPact™ Environmental Solutions is very pleased with the results which further demonstrates the ability of mPale™ and mPerial™ to be part of the solution to prevent and protect against the spread of the COVID-19 Virus.

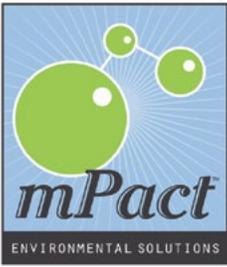


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FAQ'S

WHAT TYPES OF MICROORGANISMS DOES mPerial and mPale™ PROTECT AGAINST?

Bacteria

Micrococcus sp.
Staphylococcus epidermidis1
Enterobacter agglomerans1
Acinetobacter calcoaceticus1
Staphylococcus aureus (pigmented)1
Staphylococcus aureus (non-pigmented)1
Klebsiella pneumoniae
Pseudomonas aeruginosa
Pseudomonas aeruginosa1
Pseudomonas aeruginosa
Streptococcus faecalis
Escherichia coli
Escherichia coli1
Proteus mirabilis
Proteus mirabilis1
Citrobacter diversus1
Salmonella typhosa
Salmonella choleraesuis
Corynebacterium bovis
Mycobacterium smegmatis
Mycobacterium tuberculosis
Brucella canis
Brucella abortus
Brucella suis
Streptococcus mutans
Bacillus subtilis
Bacillus cereus
Clostridium perfringens
Haemophilus influenzae
Haemophilus suis
Lactobacillus casei
Leuconostoc lactis
Listeria monocytogenes
Propionibacterium acnes
Proteus vulgaris
Pseudomonas cepacia
Pseudomonas fluorescens
Xanthomonas campestris

Fungi

Aspergillus niger
Aspergillus fumigatus
Aspergillus versicolor
Aspergillus flavus
Aspergillus terreus
Penicillium chrysogenum
Penicillium albicans
Penicillium citrinum
Penicillium elegans
Penicillium funiculosum
Penicillium humicola
Penicillium notatum
Penicillium variable
Mucor sp.
Tricophyton mentagrophytes
Tricophyton interdigitale
Trichoderma flavus
Chaetomium globosum
Rhizopus nigricans
Cladosporium herbarum
Aerobasidium pullulans
Fusarium nigrum
Fusarium solani
Gliocladium roseum
Oospora lactis
Stachybotrys atra

Algae

Oscillatoria borneti
Anabaena cylindrica
Selenastrum gracile
Pleurococcus sp.
Schedesmus quadricauda
Gonium sp.
Volvox sp.
Chlorella vulgaris

Yeast

Saccharomyces cerevisiae
Candida albicans

ARE CHEMICAL-BASED DISINFECTANTS MORE EFFECTIVE THAN mPerial™ and mPale™?

The majority of hand sanitizers on the market today claim they kill 99.99% of germs. While this is true, alcohol-based or other "poison-based" disinfectants are only effective while they are wet, which means they are effective for only a few minutes before re-infection begins again. mPerial™ kills 99.99% of germs, while mPale™ offers continuing efficacy for up to 30 days on surfaces. To get similar efficacy from other products, you would need to apply them every few minutes. On surfaces, most household disinfectants require you to leave the disinfectant on the surface for 10 minutes or more to "disinfect" or kill all the germs on the surface. Sadly, once these products are dry, germ build-up resumes. This is not so with mPale™. Once mPale™ is applied and allowed to dry, that is when it starts working and continues to continuously protect for up to 30 days. We believe that makes mPerial and mPale the most effective disinfectant and surface protectant.

HOW SAFE ARE mPerial™ AND mPale™?

mPale™ and mPerial™ are both EPA registered with multiple studies across many industries proving its safety and efficacy. Both products offered by mPact™ and its authorized affiliates mPale™ and mPerial™ are EPA Registered, biodegradable and non-leaching; therefore it does not absorb in the body. The active formula in our products have been used effectively for many solutions since 1976.



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