

Why use Tersano Stabilized Ozonated Water?



Scan for Tersano Video
“How to Operate the LotusPro”

Ease of Use

- Tersano Ozonated Water replaces 80% of the chemicals you currently use.
- Tersano cleans with no residues, with no streaking
- Tersano Ozonated Water *deodorizes* and *sanitizes* (99.999% bacteria kill rate) on contact, as it cleans
- Tersano is an All-in-One cleaning solution. Tersano can be used on all surfaces including Glass, Mirrors, Stainless Steel, Chrome, Stone, Marble, Granite, Tiles, Vinyl, Laminated Surfaces, Hardwood Floors, Toilets, Bathrooms, Showers, Grout and Silicon, Kitchens and Degreasing, TV's, Appliances, Computer Screens, Dining Areas, Food Preparation Areas and Carpets
- Tersano Ozonated Water is produced instantly, on demand, from plain tap water. No more mixing of chemicals. No more storage of chemicals.
- No handling of dangerous concentrated chemicals
- No possibility of human error
- No need for protective gloves, goggles or clothing

Profitability and Cost

- One liter of Tersano Ozonated Water cleans as effectively as the chemicals you are now buying, but costs 15-45% less (liter to liter comparison)
- Documented overall reduction in cleaning time of 17 to 23%. (Example: Staff at the Luxor Hotel in Las Vegas went from 13 rooms to 17 rooms/day)
- Chemicals leave residue behind that attract and hold dirt. Tersano removes that residue and leaves nothing but a clean, streak free surface behind. Your staff will clean the same surfaces *less frequently*. Mirrors, glass, windows stay clean longer.
- Bathroom, toilet and washroom cleaning is simplified. Tersano Ozonated Water kills odours, mold, mildew on contact. Black and green shower mold is quick and easy to remove. Once removed – it does NOT come back.
- Much lower maintenance and replacement costs for your furniture, fixtures and cleaning equipment. Chemicals will dull and damage surfaces, clog and destroy cleaning equipment. Tersano will not. Your scrubbers, carpet cleaners furnishings and fixtures last longer.
- Carpets last much longer with Tersano. They are cleaner, softer, and the mold and mildew smell is gone. Walt Disney World reports that their carpets last up to 20% longer and look fresher.

Environmental

- Tersano's MSDS is 0-0-0-0
- Tersano is absolutely harmless to the environment. No more disposal of chemicals in Singapore's ecosystem, water supply and drains. Tersano reverts back to plain, safe drinkable tap water and oxygen. It will not harm our water supply or environment.
- Dramatically reduce your carbon footprint with Tersano's on-site, on-demand production. Eliminate transportation costs, storage costs and disposal issues for your present chemicals.
- Tersano eliminates the need to purchase, transport, store, distribute, restock, and mix your inventory of multiple cleaning products.
- Eliminate tens of thousands of empty plastic bottles and containers from being dumped in landfills, waste dumps or recycle bins.
- Tersano is Green Seal Certified: GS-37 and GS-53 standards.
- Tersano is certified compliant with LEED and the BOMA BEST standard

Environmental Impact

Go from this....



To this....



Prevent this...



TERSANO SAO – RESULTS!



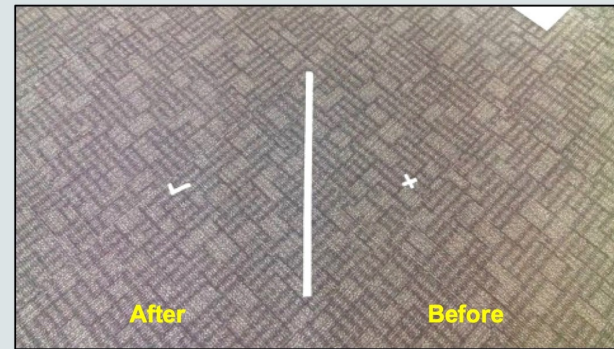
Tersano SAO Cleans Kitchen Floor Grease



Shampoo carpet with Tersano SAO



Coffee stains come right out



Before and after using Tersano SAO

TERSANO SAO – MORE RESULTS!



Treadmill on/off button



Hotel entrance/exit door handle



Exercise equipment for training the muscles of the back, shoulders and chest muscles



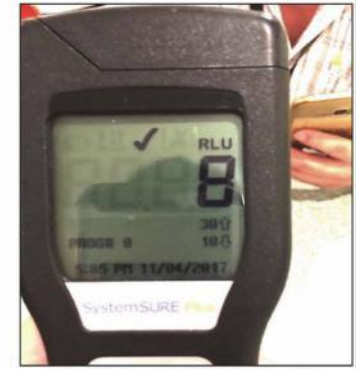
Baseline swab test of male urinal before application of Tersano Ozonated Water



Bacterial count results after pouring just 4 cups of Tersano Ozonated Water on urinal.



Baseline swab test of canteen table before application of Tersano Ozonated Water



Bacterial count results after wiping the canteen table with a paper towel and Tersano Ozonated Water

BEFORE AND AFTER SAO APPLICATION
SWAB TESTS AT A 5 STAR SINGAPORE HOTEL



Incline bench in the gym



Fresh shrimp (before and after washing with ozone once)



Spoon at the noodle shop



STAINLESS STEEL FOOD PREP TABLE
FROM 2441 RLU TO 52 RLU

SAFETY –

Tersano cleans better than chemicals
but it is so safe you can drink it!

HEALTH	/ 0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	A



Tersano Ozonated Water is so safe you can wash your face with it.



Singapore 5-star hotel employee enjoying “Tersano” tea!

Tersano Ozonated Water Pathogen “Kill” List

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SAO® PATHOGEN SUMMARY

Independent Laboratory Testing Sponsored By Tersano, Inc.

Updated: April 2022

MICRO-ORGANISM	GROUP	STANDARD	REDUCTION	TIME
CLAIM: For use as a food-contact sanitizer on hard, non-porous surfaces. Testing conducted at Microchem Laboratory, Round Rock, TX 12/15/17				
Escherichia coli (E.coli) — ATCC 11 229	Bacteria	AOAC 960.09	> 99.99%	30 secs
Staphylococcus aureus (Staph) — ATCC 6 538	Bacteria	AOAC 960.09	> 99.99%	30 secs
CLAIM: For use as a non-food-contact sanitizer on hard, non-porous surfaces. Testing conducted at MycoScience Labs, Wilmington, CT 4/13/17				
Listeria monocytogenes — ATCC 19 115	Bacteria	AOAC 960.09	> 99.99%	30 secs
CLAIM: For use as a non-food-contact sanitizer on hard, non-porous surfaces. Testing conducted at Lapuck Labs, Canton, MA 3/17/16 and 2/26/16.				
Escherichia coli (E.coli) — ATCC 11 229	Bacteria	ASTM E1153	> 99.9%	30 secs
Salmonella typhimurium (Salmonella) — ATCC 14 028	Bacteria	ASTM E1153	> 99.9%	30 secs
CLAIM: For use as a non-food-contact sanitizer on hard, non-porous surfaces. Testing conducted at Lapuck Labs, Canton, MA 4/4/17.				
Enterococcus hirae — ATCC 10 541	Bacteria	BS EN 13697:2015	> 99.99%	5 mins
Escherichia coli (E. coli) — ATCC 10 536	Bacteria	BS EN 13697:2015	> 99.99%	5 mins
Pseudomonas aeruginosa — ATCC 15 442	Bacteria	BS EN 13697:2015	> 99.99%	5 mins
Staphylococcus aureus (Staph) — ATCC 6 538	Bacteria	BS EN 13697:2015	> 99.99%	5 mins
Candida albicans — ATCC 10 231	Yeast	BS EN 13697:2015	> 99.9%	15 mins
Aspergillus brasiliensis (A. brasiliensis) — ATCC 16 404 formerly Aspergillus niger (A. niger)	Mould	BS EN 13697:2015	> 99.9%	15 mins
CLAIM: For use as a food-contact sanitizer on hard, non-porous surfaces. Testing conducted at EMSL CANADA Inc., Mississauga, ON 12/22/20.				
Enterococcus hirae — ATCC 10 541	Bacteria	EN 1276:2019	> 99.999%	1 min
Escherichia coli (E. coli) — ATCC 10 536	Bacteria	EN 1276:2019	> 99.999%	1 min
Pseudomonas aeruginosa — ATCC 15 442	Bacteria	EN 1276:2019	> 99.999%	1 min
Staphylococcus aureus (Staph) — ATCC 6 538	Bacteria	EN 1276:2019	> 99.999%	1 min
CLAIM: For use as a sanitizer on hard, non-porous, clean (non-soiled) surfaces. Testing conducted at EMSL CANADA Inc., Mississauga, ON 12/09/20.				
Pseudomonas aeruginosa — ATCC 27 853	Bacteria	EN 1040	> 99.9999%	5 mins
Staphylococcus aureus (Staph) — ATCC 6 538	Bacteria	EN 1040	> 99.9999%	5 mins
CLAIM: Evaluation of virucidal activity against coronavirus. Testing conducted at CREM Co. Labs, Mississauga, ON, 11/9/21.				
Human Respiratory Coronavirus 229E — ATCC VR-740	Enveloped Virus	ASTM E1052-20	> 99.99%	10 mins
CLAIM: Evaluation of virucidal activity against SARS-CoV-2. Testing conducted at Institute of Biology, State University of Campinas - UNICAMP, 4/14/20.				
Coronavirus MHV-3 (Murine Hepatitis Virus)	Enveloped Virus	EN 14476	> 99.99%	1 min
CLAIM: Evaluation of virucidal activity. Testing conducted at Institute of Biology, State University of Campinas - UNICAMP, 4/14/20.				
Influenza A Virus (H1N1)	Enveloped Virus	EN 14476	> 99.99%	1 min
Measles Virus	Enveloped Virus	EN 14476	> 99.99%	1 min
Syncytial Respiratory Virus	Enveloped Virus	EN 14476	> 99.99%	1 min
CLAIM: Determination of the antiviral effectiveness of SAO using a suspension time-kill procedure against Canine Parvovirus. Testing conducted at Microchem Laboratory, Round Rock, TX.				
Canine Parvovirus — ATCC VR-2016	Small, non-enveloped virus	ASTM E1052	99.44%	5 mins

NOTE: All standard protocols are modified for the in situ generation of Stabilized Aqueous Ozone. BS EN 13697:2015, EN 1276 & EN 14476 standards were done under clean condition protocol. *Test of Aqueous Ozone. Tested to meet or exceed TUV, UL and CSA standards. Tersano's SAO® is created by a dispenser regulated as a pesticidal device manufactured at EPA Establishment No. C960385-CAN-001. lotus, SAO, and iClean mini are registered trademarks of Tersano Inc. All other marks are property of their respective owners.



SIMPLE. SAFE. SUSTAINABLE.

AQUEOUS OZONE PATHOGEN SUMMARY

Independent Laboratory Testing Sponsored By Tersano, Inc.

Results from Tersano testing showing the power of aqueous ozone and the time required to destroy various bacteria at a strength of 2 ppm or less.

MICRO-ORGANISM	GROUP	STANDARD	REDUCTION	TIME
ODOR TEST RESULTS — Testing conducted at Microbiotest Inc.				
Proteus mirabilis — ATCC 7002	Bacteria	Fabric Surface Sanitizer Method	>99%	30 secs
BACTERIA TEST RESULTS — Testing conducted at Microbiotest Inc.				
Escherichia coli (E.coli) — ATCC 11 229	Bacteria	Fruit and Vegetable Antibacterial Wash Test	> 99.99%	30 secs
Listeria monocytogenes (L. monocytogenes) — ATCC 19 111	Bacteria	Fruit and Vegetable Antibacterial Wash Test	> 99.99%	30 secs
Escherichia coli (S. choleraesuis) — ATCC 10 708	Bacteria	Fruit and Vegetable Antibacterial Wash Test	> 99.99%	30 secs

3rd Party Testing Of Ozone Efficacy Against Pathogens

Results for Aqueous Ozone Tested for Use as an Anti-Microbial Treatment

Data compiled from third party independent industry and academic sources, and is for general information purpose only. Kill rates vary with temperature, surface texture, pH and other factors.

MICROBE	REDUCTION	OZONE	CONTACT TIME	SOURCE
Coronavirus SARS-CoV-2 (SARS-CoV-2/Hu/DP/Kyng/19-020)	99.9%	0.75 ppm	10 secs	Microbiology & Immunology
Coronavirus SARS-CoV-2 (Brazil/SPBR-02/2020)	> 99%	0.7 ppm	1 min	Ozone: Science & Engineering
Coronavirus SARS-CoV-2 QLD02 (GISAID accession EPI_ISL_407896) & QLD935 (GISAID accession EPI_ISL_436097)	>> 99%	0.6 ppm	5 mins	Environmental Research
Hepatitis A	99.999%	1.00 ppm	30 secs	Canadian Journal of Microbiology
Human Rotavirus Type 2 (Wa)	99.99%	0.25 ppm	10 secs	Applied & Environmental Microbiology
Enteric Adenovirus (AD40)	99.9%	0.30 ppm	30 secs	Water Research
Feline calicivirus	99.99%	1.00 ppm	15 secs	Water Research
Norwalk Virus	99.9%	0.37 ppm	10 secs	Applied & Environmental Microbiology
Poliovirus 1	99.9%	0.37 ppm	60 secs	Applied & Environmental Microbiology
Bacteriophage F2	99.99999%	0.8 ppm	5 secs	Applied & Environmental Microbiology
Mycobacterium avium	99.9%	1.2 ppm	5 secs	Virginia Tech - MSc Thesis*
Trichophyton mentagrophytes	99.9999%	1.5 ppm	30 secs	NSF Toxicology Group**
Salmonella choleraesuis	99.9999%	1.5 ppm	3 mins	NSF Toxicology Group**
Clostridium difficile	99.9999%	0.6 ppm	3 mins	Ozone: Science & Engineering***
E. faecalis (Streptococcus faecalis)	99.9999%	0.6 ppm	3 mins	Ozone: Science & Engineering***

*Based on Concentration/contact Time (CT) of 0.1 ppm-min

**Residual (measurable) dose of around 1.5 ppm ozone in water solution.

***Test within a Laundry System in ambient cold water

Aqueous Ozone is approved by the EPA, FDA, USDA, is considered GRAS, and is compliant with the EPA Organic Program as a natural and effective cleaner and sanitizer.



For more detailed kill rate data along with a more thorough and complete list of microbes, please contact your Tersano Customer Representative. lotus is a registered trade mark of Tersano Inc. All other marks are property of their respective owners.

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Fraser Suites, Sukhumvit Bangkok
GlaxoSmithKline, Singapore
Gleneagles Hospital, Singapore
Integrated Property Management Pte Ltd
KH Roberts Pte Ltd, Singapore
Khoo Teck Puat Hospital, Singapore
LDM Marketing Pte Ltd, Singapore
Liat Towers, Singapore
Living Green Pte Ltd, Singapore
Modena by Fraser, Bangkok
Mt. Elizabeth Hospital, Novena, Singapore
ProCare Cleaning Pte Ltd, Singapore
Securcomm Solutions Pte Ltd, Singapore
Sodexo, Singapore
The French International School, Singapore
The Orchard Hotel, Singapore
THK Home for Disabled at Chai Chee,
THK Home for the Disabled, Eunus
THK Home for the Disabled, Sembawang
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Bank of America
BBC
BNP
Budget Rent-A-Car
Canary Wharf, London
Carnival Cruise Line
Citibank
Compass Group
Deloitte
EDF Energy
Emirates Stadium, London
Engie, UK
Excalibur Hotel, Las Vegas
Ford Motor Company
Glaxo Smith Kline
Heathrow T4, London
Hertz Car Rental Agency
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