

FRUITS
&
VEGETABLES

INSTRUMENTS
&
TOOLS

MEDICAL
SURFACES



APPROVED BY: HEALTH CANADA | CANADIAN FOOD INSPECTION AGENCY (CFIA) | ECOSEAL



Virucidal – Bactericidal
Fungicidal – Algaecidal
Sporicidal

PSA

Patented | Food grade disinfectant and odorless | Food Contact No-Rinse | Chlorine-Free disinfection | High efficiency at low dosage rates | Fast acting, reduced kill time | Biodegradable Safe, Non-toxic and non-harsh | Non-corrosive | Non-carcinogenic | Shelf life 2 years



atomes
Advanced Biochemicals

www.atomesbio.com

THE TECHNOLOGY

ATO PSA is an odourless equilibrium mixture of peracids, hydrogen peroxide, food Grade stabilizers and biopolymer to act as a sequestering, wetting and penetrating agent.

ATO PSA product is considered as a single product, no need to generate in situ, it follows the strategy dose and go. The product was developed with a shelf life increased up to 2 years.

ATO PSA will always be delivered at 20% accurate concentration of Peracids. The Powerful oxidizing power of the Peracid destroys cell wall, DNA and proteins. Efficient against non-enveloped viruses, enveloped viruses, gram + bacteria, gram - bacteria, yeast, mold and algae.

THE INDICATIONS

Disinfecting open surfaces: Dilute **ATO PSA** at 1% (10 ml/L). Apply the solution on the surface manually via sprayer or via Mop and Leave the solution for 30 seconds to air dry.

Fruits & Vegetables: Dilute **ATO PSA** at 0.2% (2 ml/L). soak fruits & Vegetables for 2 to 5 minutes. No need to rinse as its certified food contact no rinse.

Tools & Instruments (Cold Sterilization): Dilute **ATO PSA** at 1% (10 g/L). Soak for 3 to 10 min and cloth dry.

Relative oxidization potential for common disinfectants

COMPOUND	OXIDATION POTENTIAL (Ev)
ATO PSA	1.81
Chlorine Dioxide	1.57
Sodium Hypochlorite	1.36

1

Prepare a 1% Solution. (10 ml of PSA in 1 L of clean water)

2

Damp mop all appropriate areas. PSA could be also sprayed

3

Mop up corners to prevent buildup. Mop in Zig Zag motion

4

Change the mop when soiled. Inspect the work.



Bacteria, Yeast, Molds & Algae 100% Kill Less Than 5 min

Aerobacter aerogenes	Pityrosporum ovale
Bacillus aerus, var. mycoides (gram +)	Proteus vulgaris (gram -)
Bacillus subtilis (gram +)	Pseudomonas aeruginosa PRD-10 (gram -)
Brevibacterium ammoniagenes	Salmonella gallinarum (gram -)
Brucella abortus	Salmonella pullorum (gram -)
Citrobacter freundii	Salmonella typhimurium (gram -)
Clostridium difficile (gram +)	Salmonella schottmulleri (gram -)
Escherichia coli (gram -)	Salmonella typhosa (gram -)
Enterobacter aerogenes	Salmonella choleraesuis (gram -)
Klebsiella pneumoniae	Shigella sonnei (gram -)
Lactobacillus casei	Staphylococcus aureus (gram +)
Listeria monocytogenes (gram +)	Methicillin Resistant Staphylococcus Aureus (MRSA) (gram +)
Monilia albicans	Streptococcus pyogenes C-203 (gram +)
Mycobacterium amegmatis	Streptococcus fecalis (gram +)
Neisseria caiarrbalis (gram -)	Streptococcus faecalis (VRE)
Pasteurella multocida (gram -)	(Vancomycin resistant enterococci) (gram +)
Penicillium luteum	Streptococcus viridans (gram +)
Penicillium notatum	

Viruses 100% Kill Less Than 5 min

All Enveloped Viruses
 Hepatitis B Virus
 Hepatitis C Virus
 Herpes Simplex virus Type 1
 Herpes Simplex virus Type 2
 HIV-1 (the AIDS Virus)
 Influenza A / Brazil (Influenza)
 Respiratory Syncytial Virus (RSV)
 Vaccinia (Pox Virus)
 Animal Viruses
 Avian Infectious Bronchitis Virus Avian
 Influenza Virus
 Canine Distemper Virus
 Coronavirus (CCRV)
 Newcastle's Disease Virus
 Pseudorabies Virus



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