

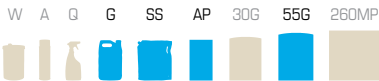


QUAT-64™

BROAD SPECTRUM DISINFECTANT



Available Packaging



FEATURES

- Germicidal
- Cleaner
- Disinfectant
- Detergent
- Fungicide
- Deodorizer
- Virucide*
- Mildewstat
- Sanitizer
- Hospital disinfectant
- Cleans as it disinfects
- Effective in up to 300 ppm hard water in the presence of 5% organic soil load
- E.P.A. registered
- Pleasant fragrance
- Economical
- For use on all hard surfaces
- Easy-to-use

The **SANICARE QUAT-64** Difference

Buckeye Sanicare Quat-64 is a multi-purpose disinfectant cleaner designed for use in hospital, institutional and health-care settings at 2 oz. per gallon of water.

Sanicare Quat-64 is a hospital use disinfectant at 2 ounces per gallon, modified in the presence of 300 ppm hard water (calculated as CaCO₃) and in the presence of organic soil (5% blood serum) for a contact time of 10 minutes. It offers one-step cleaning, disinfecting and deodorizing.

Sanicare Quat-64 kills HIV-1 (AIDS virus), HBV (Hepatitis B Virus), HCV (Hepatitis C Virus) Herpes Simplex Type 1 & 2 Virus and a broad spectrum of bacteria, fungi and viruses. *(Test results found inside.)*

Sanicare Quat-64's special detergents effectively remove dirt and soil without harming floor finish. With no rinsing required, this means more time may pass between labor intensive stripping and recoating procedures.

Effectively Kills: HIV-1 (AIDS virus) • HBV (Hepatitis B Virus) • HCV (Hepatitis C Virus) • Herpes Simplex Type 1 & 2 Virus • Measles Virus • Athlete's Foot Fungus • Vancomycin Resistant Enterococcus Faecalis (VRE) • Community Associated Methicillin Resistant Staphylococcus aureus (CA-MRSA) • Vaccinia Virus • Adenovirus • Gram-negative & Gram-positive pathogens

Kills Pandemic 2009 influenza A virus (formerly called swine flu)

Buckeye Sanicare Quat-64 is designed for use in:

- Hospitals
- Healthcare facilities/Nursing homes
- Institutional facilities
- Medical clinics
- Physicians' offices
- Day care centers
- Schools/Colleges/Universities
- Federally inspected meat and poultry plants (non-food contact surfaces)
- Athletic facilities/Health clubs
- Correctional centers
- Hotels/Motels
- Office buildings
- Public rest areas
- Transportation terminals

Bactericidal and Yeast Testing

AOAC Use-dilution Test

Test Conditions

Test Diluent:	300 ppm hard water
Organic Soil Load:	5% blood serum
Contact Time:	10 minutes
CI:	Clinical Isolate

Organism	# Carriers	# of Positives	Strain/ Source#
Acinetobacter calcoaceticus anitratus	20	0	CI
Acinetobacter calcoaceticus var. lwoffii	20	0	CI
Actinobacillus pleuropneumoniae	20	0	ATCC 27088
Actinomyces pyogenes	20	0	ATCC 19411
Aspergillus niger	20	0	CI
Bacillus cereus	20	0	ATCC 11778
Bordetella bronchiseptica	20	0	CI
Bordetella bronchiseptica	20	0	ATCC 19395
Brevibacterium ammoniagenes (in deionized water)	20	0	GBL
Brevundimonas diminuta	20	0	CI
Burkholderia cepacia	20	0	CI
Burkholderia picketti	20	0	ATCC 49729
Campylobacter jejuni	20	0	ATCC 29428
Candida albicans	20	0	
Chryseomonas luteola	20	0	ATCC 43273
Corynebacterium pseudotuberculosis	20	0	ATCC 19410
Cryptococcus neoformans	20	0	
Enterobacter aerogenes (in deionized water)	20	0	ATCC 13048
Enterobacter agglomerans	20	0	CI
Enterobacter cloacae	20	0	CI
Enterobacter gergoviae	20	0	CI
Enterobacter liquefaciens	20	0	CI
Enterococcus faecalis	20	0	CI
Enterococcus faecium	20	0	ATCC 6569
Escherichia coli	20	0	GBL 101
Escherichia coli strain 0157:H7	20	0	ATCC 35150
Escherichia coli (Urinary)	20	0	CI
Escherichia coli (Wound)	20	0	CI
Escherichia vulneris	20	0	Wildtype Isolate
Flavobacterium meningosepticum	20	0	CI
Hafnia alvei	20	0	CI
Klebsiella oxytoca	20	0	CI
Klebsiella pneumoniae	20	0	CI
Listeria monocytogenes	20	0	ATCC 984
Micrococcus luteus	20	0	CI
Morganella morganii	20	0	CI
Pasteurella haemolyticus	20	0	ATCC 43823
Proteus mirabilis	20	0	CI
Proteus vulgaris	20	0	CI
Pseudomonas aeruginosa	20	0	CI
Pseudomonas aeruginosa	20	0	ATCC 15442
Pseudomonas fluorescens	20	0	CI
Pseudomonas pseudomallei	20	0	CI
Pseudomonas putida	20	0	CI
Pseudomonas stutzeri	20	0	CI
Rhodococcus equi	20	0	ATCC 6939
Salmonella choleraesuis	20	0	ATCC 10708

Bactericidal and Yeast Testing

Organism	# Carriers	# of Positives	Strain/ Source#
Salmonella schottmuelleri (in deionized water)	20	0	GBL
Salmonella typhi	20	0	ATCC 6539
Serratia marcescens	20	0	CI
Shigella dysenteriae	20	0	GBL
Sphingomonas paucimobilis	20	0	CI
Staphylococcus aureus	20	0	CI
Staphylococcus aureus (Toxic Shock)	20	0	CI
Staphylococcus aureus	20	0	ATCC 6338
Staphylococcus auricularis	20	0	ATCC 33753
Staphylococcus capitis	20	0	CI
Staphylococcus epidermidis	20	0	CI
Staphylococcus hominis	20	0	ATCC 29885
Staphylococcus saprophyticus	20	0	CI
Staphylococcus simulans	20	0	ATCC 11631
Stenotrophomonas maltophilia	20	0	CI
Streptococcus equi. var. equi	20	0	ATCC 33398
Streptococcus equi. var. zooepidermicus	20	0	ATCC 43079
Streptococcus haemolyticus	20	0	CI
Streptococcus pneumoniae	20	0	CI
Streptococcus pyogenes	20	0	ATCC 19615
Streptococcus salivarius	20	0	GBL
Yersinia enterocolitica	20	0	ATCC 23715

GBL: Gibraltar Biological Laboratories

Pathogenic Fungus Testing

Test Conditions

Test Diluent:	300 ppm hard water
Organic Soil Load:	5% serum in the inoculum
Contact Time:	10 minutes

Organism	ATCC#
Trichophyton mentagrophytes	9533

Environmental Mold Testing

AOAC Use-dilution Test

Test Conditions

Test Diluent:	400 ppm hard water
Organic Soil Load:	5% blood serum
Contact Time:	10 minutes

Organism
Aspergillus candidus
Aspergillus niger
Penicillium chermesinum
Penicillium oxalicum
Penicillium spinulosum
Ulocladium sp.

Antibiotic Resistant Organisms

Test Conditions: All are clinical isolates
 Test Diluent: 300 ppm hard water
 Organic Soil Load: 5% blood serum
 Contact Time: 10 minutes

Organism	# Carriers	# of Positives	Drug
Enterobacter agglomerans	20	0	Ampicillin Sulfanilimide
Enterococcus faecalis (VRE)	20	0	Vancomycin
Enterococcus faecium (VRE)	20	0	Vancomycin
Escherichia coli (Urinary)	20	0	Sulfa Penicillin
Escherichia coli (Wound)	20	0	Tetracycline Ampicillin Sulfa
Klebsiella oxytoca	20	0	Ampicillin Sulfanilimide Tetracycline
Klebsiella pneumoniae type 1 (Wound)	20	0	Cephalothin Tetracycline Sulfa Ampicillin
Morganella morganii	20	0	Tetracycline Penicillin
Pseudomonas aeruginosa	20	0	Sulfa Cefatoxime Nitrofurantoin Tetracycline Ampicillin Amikacin Cephalothin Bactine
Staphylococcus aureus(MRSA) (VISA)	20	0	Methicillin Vancomycin Penicillin G Penicillin Ampicillin Tetracycline Cefatoxime Cefazolin Chloramphenicol Ciprofloxacin Clindimycin Erythromycin Oxacillin Rifampin
Staphylococcus epidermidis	20	0	Ampicillin

*Virus Testing

EPA Accepted Protocol
 Test Conditions
 Test Diluent: 300-400 ppm hard water
 Organic Soil Load: 5-10% blood serum
 Contact Time: 10 minutes

Virus	Strain/Source
Human Viruses	
Adenovirus Type 2	ATCC VR-846
Cytomegalovirus	ATCC VR-284
HBV (Hepatitis B Virus)	NY Blood Center
HCV (Hepatitis C Virus)	BVDV Surrogate
Herpes Simplex Type 1 virus	ATCC VR-260
Herpes Simplex Type 2 virus	ATCC VR-734
HIV-1 (AIDS virus) 30 second contact time	UMDNJ
Human Coronavirus	ATCC VR-740
Influenza A/Brazil (H1N1) Virus	New Jersey Health Department
Influenza A/Victoria (H3N2) Virus	ATCC VR-822
Influenza A2-Japan (H1N1) Virus	ATCC VR-100
Influenza B Virus (Allen strain)	ATCC VR-102
Influenza C Virus (Taylor strain)	ATCC VR-104
Measles Virus	ATCC VR-24
Parainfluenza Virus Type 1	ATCC VR-105
Poliovirus Type 1 (Chat strain) 30 minute contact time	ATCC VR-192
Respiratory Syncytial Virus	ATCC VR-26
Rotavirus	WA strain University of Ottawa
Vaccinia	Hoffmann-LaRoche, Pool 57
Non-Human Virus	
Avian Influenza/Turkey/Wisconsin Virus	ATCC VR-798
Bovine Viral Diarrhoea Virus	X-800
Canine Coronavirus (Hepatitis C surrogate)	ATCC VR-809
Canine Distemper Virus	Onderstepoort strain, 7
Canine Herpesvirus	ATCC VR-522
Equine Herpesvirus	ATCC VR-700
Equine Influenza Virus	ATCC VR-297
Feline Calicivirus	Upjohn
Feline Infectious Peritonitis Virus	ATCC VR-990
Infectious Bovine Rhinotracheitis Virus (IBR)	ATCC VR-188
Newcastle Disease Virus	ATCC VR-109
Porcine Parvovirus	ATCC VR-742
Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)	GBL
Porcine Rotavirus	ATCC VR-893
Pseudorabies Virus	ATCC VR-135
Transmissible Gastroenteritis Virus (TGE)	ATCC VR-763
Vesicular Stomatitis Virus (VSV)	GBL

Bacteriophage Testing

Test Conditions
 Test Diluent: 300 ppm hard water
 Organic Soil Load: 0.2% blood serum
 Contact Time: 10 minutes

Organism	ATCC#	Log Kill
T1 bacteriophage	11303-B1	≥8
T4 bacteriophage	11303-B4	≥9

SANICARE QUAT-64™

BROAD SPECTRUM DISINFECTANT

*Virucidal

Human Immunodeficiency Virus (HIV-1)

Evaluation of **Sanicare Quat-64** for virucidal efficacy against dried virus (5% organic soil load) after a 30-second exposure to a 1:64 dilution in synthetic hard water (300 ppm).

CPE Assay with MT2 Cells (Day 7)

Cytopathic-Cytotoxic Effects (No. Positive/No. Inoculated)

Dilution Inoculated	Virus Control	Sample + Virus		Non-Virucidal Level of Disinfectant		Cytotoxicity Controls	
		Lot A	Lot B	Lot A	Lot B	Lot A	Lot B
10 ⁻¹	4/4	Toxic	Toxic	Toxic	Toxic	4/4	4/4
10 ⁻²	4/4	Toxic	Toxic	Toxic	Toxic	4/4	4/4
10 ⁻³	4/4	0/4	0/4	4/4	4/4	0/4	0/4
10 ⁻⁴	4/4	0/4	0/4	4/4	4/4	0/4	0/4
10 ⁻⁵	4/4	a	a	4/4	4/4	a	a
10 ⁻⁶	2/4	a	a	0/4	0/4	a	a
Virus Titer (-Log ₁₀ TCID ₅₀)	6.0	≤2.5	≤2.5	5.5	5.5		
Cytotoxicity Titer (-Log ₁₀ TCID ₅₀)						2.5	2.5
Reduction of Virus Titer by test sample (-Log ₁₀ TCID ₅₀)		≥3.5	≥3.5				

a = Virus not tested

Conclusion: **Sanicare Quat-64** demonstrated virucidal activity against HIV-1 (AIDS Virus) in the CPE assay with MT2 cells.

DIRECTIONS FOR USE:

This product may be used on washable, hard, nonporous surfaces such as walls, floors, toilet bowls, tables, chairs, telephones, bed frames, cabinets, bathtubs and urinals. Remove gross filth or heavy soil. For heavily soiled areas, a precleaning step is required. Add two ounces **Sanicare Quat-64** per gallon of water. Apply solution with a cloth, mop, sponge, hand pump trigger sprayer or other mechanical sprayer devices. Treated surfaces must remain wet for 10 minutes. Let air dry. Prepare a fresh solution for each use.

TECHNICAL SPECIFICATIONS SANICARE QUAT-64

pH in concentrate	11.7 ± 0.2
pH ½ oz./gal.	10.4 ± 0.2
Weight/Gallon	8.66 lbs/gal.
Specific Gravity	1.04
Dilution	1:64
Concentration of Quat @ 2 oz./gal.	660 ppm
Active Ingredients:	
n-Alkyl (60%C ₁₄ , 30%C ₁₆ , 5%C ₁₂ , 5%C ₁₈)	
dimethyl benzyl ammonium chloride.....	2.37%
n-Alkyl (68%C ₁₂ , 32%C ₁₄)	
dimethyl ethylbenzyl ammonium chloride.....	2.37%
Inert Ingredients.....	95.26%

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