



VELTEK ASSOCIATES, INC.

TECHNICAL DATA FILES



DECON-QUAT[®] 200C

5th Generation Quaternary Ammonium Solution

Claims, product registrations, and regulatory requirements may vary based on local, regional, and/or national laws and regulations. Please contact your local sales representative for information specific to your region.

08NOV2023

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Table of Contents

PRODUCT OVERVIEW	3
Quality and Manufacturing	3
Features and Benefits	4
Product Uses	4
ABCD Cleanroom Introduction System®	5
SIMPLEMIX®	5
The SimpleMix System Technology Alternative	5
SimpleMix Directions for Use	6
CHEMICAL SPECIFICATIONS	9
ORDERING INFORMATION	9
LABELING	10
VAI® Product Label Colors	10
Product Labeling	11
EFFICACY TEST SUMMARY	16
Summary of Antimicrobial Test Results	19
ADDITIONAL DOCUMENTATION	25



DECON-QUAT 200C Family of Products

Veltek Associates, Inc.

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 Tel: 610-644-8335 Fax: 610-644-8336 www.sterile.com
 Rev: 08NOV2023, ML Rev: K-22

Product Overview

DECON-QUAT 200C is a one-step fifth generation quaternary ammonium solution for use in pharmaceutical, biotechnology, and medical device manufacturing facilities, in healthcare industry, and in hospitals. **DECON-QUAT 200C** is a neutral pH and phosphate-free formulation designed to provide effective cleaning, deodorizing, and disinfection in areas where housekeeping is of prime importance of controlling the hazard of cross-contamination on treated surfaces. When used as directed at a 1:256 dilution, **DECON-QUAT 200C**, contains 660 ppm of active quaternary germicide, making it highly effective against a broad spectrum of pathogenic microorganisms including bacteria, antibiotic resistant bacteria, viruses*, fungi, mold, and mildew. **DECON-QUAT 200C** is effective in hard water up to 400 ppm hardness (Calculated as CaCO₃) in the presence of 5% soil contamination. **DECON-QUAT 200C** meets surface disinfection recommendations from OSHA Bloodborne Pathogen Standard for HIV, HBV, and HCV.

Cleaner – Disinfectant – Non-Food Contact Sanitizer – Deodorizer – Fungicide – Mildewstat – Virucide*

**see page 14 for virucidal performance*

DECON-QUAT 200C is filled in ISO 7 cleanroom (Grade B), filtered at 0.2 microns, and subsequently terminally sterilized to 10⁻⁶ sterility assurance level. Each lot of **DECON-QUAT 200C** is sterility tested according to current USP compendium, is completely traceable, and has been completely validated for sterility and shelf life. **DECON-QUAT 200C** is delivered with lot specific analytical, irradiation, and sterility data, tested to current USP compendium.

DECON-QUAT 200C is available in multiple container sizes including a 1 gallon, 16 oz trigger spray, and unit dose. **DECON-QUAT 200C** 1 gallon and 16 oz containers come in our one-step, ready-to-use SimpleMix® System that allows for exact and fresh formulations each and every time without handling the concentrate. Each sterile container of **DECON-QUAT 200C** is individually double bagged and packaged in two liner bags using the ABCD Cleanroom Introduction System®.

Quality and Manufacturing

- Filled in an ISO 7 cleanroom (Grade B)
- Filtered at 0.2 microns
- Components are air washed with 0.2 micron filtered air before assembly
- Gamma irradiated 10⁻⁶ SAL
- Lot sterility tested according to current USP compendium
- Completely traceable from start to finish
- Completely validated for sterility and shelf life

Features and Benefits

- US EPA registered; EPA Registration Number: 10324-141-68959
- Each sterile container is double bagged in easy tear packaging
- Quadruple bagged in the ABCD Cleanroom Introduction System®
- Delivered with lot specific analytical, irradiation, and sterility data, tested to current USP compendium
- Available in our convenient, one-step, ready-to-use, SimpleMix System made with USP Water for Injection (<0.25 EU/mL)
- Individually labeled with lot number and expiration
- Multiple convenient container sizes – Unit Dose, 16 oz, and 1 Gallon either sterile or non-sterile
- Proven one-step disinfectant, fungicide, and virucide* on hard, non-porous, non-food contact surfaces
- Effective in hard water up to 400 ppm hardness (calculated as CaCO₃) in the presence of 5% soil
- Meets surface disinfection recommendations from OSHA Bloodborne Pathogen Standard for HIV, HBV, and HCV
- Kills Avian Influenza A Virus H5N1 and H3N2; and H1N1 Influenza A Virus
- Effective fungicide against *Trichophyton Interdigitale* (formerly *T. mentagrophytes*) and *Candida albicans* on hard non-porous surfaces
- One-step, hospital-use, germicidal disinfectant designed for use on hard, non-porous, non-food contact surfaces
- No-rinse neutral pH disinfectant cleaner that disinfects, cleans, and deodorizes hard, non-porous, non-food contact surfaces in one labor-saving step when used according to the disinfection directions.
- Complete, chemically balanced disinfectant/sanitizer, contains no fragrances, and contains no phosphorous
- Will not harm most surfaces and will not leave grit or soap scum
- Contains no abrasives so it will not scratch surfaces; non-dulling to floors

*See page 14 for virucidal performance

Product Uses

- General hard, non-porous surfaces
- Floors, finished floors, walls, ceilings
- Fixtures, counters, countertops, sinks, tub surfaces, non-food contact equipment, appliances
- Glass surfaces, aluminum, brass, copper, laminated surfaces, non-medical metal, non-medical plated or stainless steel, glazed porcelain, glazed tile, glazed ceramic, sealed granite, sealed marble, plastic (such as polycarbonate, polyvinylchloride, polystyrene, or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome, vinyl, Plexiglas®, enameled surfaces, Formica®, windows, and mirrors

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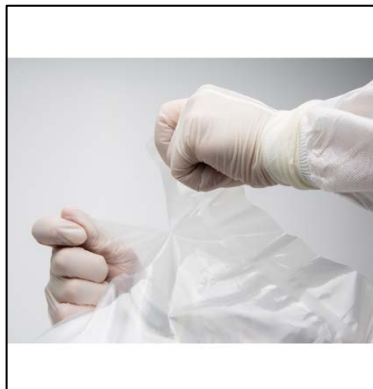
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ABCD Cleanroom Introduction System®

The ABCD Cleanroom Introduction System is a packaging system that allows operators/users to take the package through each level of classified areas by simply removing a bag. Each bag acts as a barrier protecting the finished product from becoming a carrier of viable and non-viable contamination. This prevents the need to decontaminate the outer bag prior to entering a cleaner area. In this packaging system each container is individually packaged into two easy tear bags, and all the individually packaged containers are then bulk packaged into two additional bags.



SimpleMix®

The SimpleMix System Technology Alternative

Veltek Associates, Inc. has developed the patented SimpleMix System Technology to eliminate measuring and additional containers. It provides for the transfer of the sterile concentrate and sterile water in a sealed container to the aseptic area. The system container is double bag packaged for easy transfer and eliminates all internal and external sterility concerns. The patented SimpleMix System provides a sealed multi-chamber container that when activated mixes the solution to the correct use dilution. The small chamber holds the concentrate, and the bottom reservoir contains the VAI WFI Quality Water. Just open the small chamber cap, push the plunger container completely down until the bottom pops open and the bellows are compressed. The solution and water mix together. The SimpleMix System design permits the easy transfer of the product to the aseptic manufacturing area without concern for the transfer of contamination.

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SimpleMix Directions for Use

How to use the SimpleMix Trigger Spray

1. To prepare use solution, open cap.
2. Peel off inner seal by grasping tab at far edge and pulling off.
3. Firmly push small, inner container completely down.
4. Replace cap and tighten.
5. Slowly swirl for 15 seconds.
6. Move spray nozzle to open position.
7. Follow directions for use on label.

For pictorial directions, see page 7.

How to use the SimpleMix Gallon Size

1. To prepare use solution, open cap.
2. Peel off inner seal by grasping far edge and pulling off.
3. Firmly push small, inner container completely down.
4. Replace cap and tighten.
5. Slowly swirl for 15 seconds.
6. Open small side spout and peel off inner seal, as above.
7. Pour solution from small side spout onto surfaces to be treated or alternate containers.
8. Follow directions for use on label.

For pictorial directions, see page 8.



SimpleMix Trigger Spray

SIMPLEMIX® 16 oz/ 473mL Aseptic Mixing System

For the Exact Formulation of 16 oz/ 473 mL Disinfectants and Sporicides

Ready-to-Use Mixing Instructions

- 1) To prepare use solution, open cap.
2) Peel off inner seal by grasping tab at far edge and pulling off.



- 3) Firmly push small, inner container all the way down.



- 4) Replace cap and tighten.



- 5) Slowly swirl for 15 seconds.



- 6) Move spray nozzle to open position.



- 7) Follow directions for use on label.



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SimpleMix Gallon

SIMPLEMIX® 1 Gallon/ 3.79L Aseptic Mixing System

For the Exact Formulation of 1 Gallon/ 3.79L Size Disinfectants and Sporicides

Ready-to-Use Mixing Instructions

- 1) To prepare use solution, open cap.
2) Peel off inner seal by grasping tab at far edge and pulling off.



- 3) Firmly push small, inner container all the way down.



- 4) Replace cap and tighten.



- 5) Slowly swirl for 15 seconds.



- 6) Open small side spout and peel off inner seal, as above.



- 7) Pour solution from small side spout onto surfaces to be treated or alternate containers.



- 8) Follow directions for use on label.

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Chemical Specifications

DECON-QUAT 200C – 5th Generation Quaternary Ammonium Solution	
Certificate of Analysis	Specifications
pH	6.0 – 10.5
Assay	16.9 – 17.7%
Appearance	Clear, colorless straw colored liquid
Expiration Period	2 years

Ordering Information

DECON-QUAT 200C – 5th Generation Quaternary Ammonium Solution		
Part number	Description	Qty/cs
DQ200C-01	DECON-QUAT 200C, 1 Gallon Concentrate, Non-Sterile	4
DQ200C-02	DECON-QUAT 200C, 1 Gallon Concentrate, Sterile	4
DQ200C-03-2Z	DECON-QUAT 200C, 2 oz Concentrate, Unit Dose, Sterile	24
DQ200C-03-8Z	DECON-QUAT 200C, 8 oz Concentrate, Unit Dose, Sterile	24
DQ200C-04-2Z	DECON-QUAT 200C, 1 Gallon SimpleMix, Sterile	4
DQ200C-05-2Z	DECON-QUAT 200C, 1 Gallon SimpleMix, Non-Sterile	4
DQ200C-06-16Z-01	DECON-QUAT 200C, 16 oz SimpleMix, Attached Trigger, Sterile	12
DQ200C-07-16Z-01	DECON-QUAT 200C, 16 oz SimpleMix, Attached, Trigger Non-Sterile	12

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Labeling

VAI' Product Label Colors

Product Name	Bottle/Can Color	Label Background Color	Bar & User Info Color	Text Color
DECON-AHOL WFI FORMULA 70% AEROSOL	COOL GREY	PRINTED CAN COOL GREY		
DECON-AHOL WFI FORMULA 70% TRIGGER SPRAY, 1 & 5 GALLON	WHITE	COOL GREY		
DECON-AHOL WFI FORMULA 70% SQUEEZE BOTTLE	WHITE SEMI-TRANSPARENT	COOL GREY		
DECON-AHOL WFI FORMULA 70% ASEPTI-CLEANSE BOTTLE	WHITE SEMI-TRANSPARENT	COOL GREY		
DECON-AHOL WFI FORMULA 60%	WHITE	COOL GREY		
DECON-AHOL WFI FORMULA 91%	WHITE	COOL GREY		
DECON-AHOL FORMULA 99%	WHITE	COOL GREY		
STER-AHOL WFI AEROSOL	WHITE	PRINTED CAN WHITE		
STER-AHOL WFI TRIGGER SPRAY, 1 & 5 GALLON	WHITE	WHITE		
DECON-HAND STERILE	WHITE SEMI-TRANSPARENT	PRINTED BOTTLE		
DECON-HAND NON-STERILE	CLEAR	PRINTED BOTTLE		
DECON-HAND ASEPTI-CLEANSE BOTTLE	WHITE SEMI-TRANSPARENT	WHITE		
STERI-OIL	WHITE	WHITE		
STERI-BUFFER	CLEAR	WHITE		
DECON-PHENE	WHITE	WHITE		
DECON-CYCLE	WHITE	WHITE		
DECON-CLEAN	WHITE	WHITE		
DECON-QUAT 100	WHITE	WHITE		
DECON-QUAT 200C	WHITE	WHITE		
DECON-QUAT 200V	WHITE	WHITE		
HYPO-CHLOR 0.25%	WHITE	WHITE		
HYPO-CHLOR 0.52%	WHITE	WHITE		
HYPO-CHLOR 5.25%	WHITE	WHITE		
HYPO-CHLOR Neutral 0.25%	WHITE	WHITE		
HYPO-CHLOR Neutral 0.52%	WHITE	WHITE		
STERI-PEROX 3%	WHITE	WHITE		
STERI-PEROX 6%	WHITE	WHITE		
DECON-SPORE 200 PLUS (SPORICIDE)	WHITE SEMI-TRANSPARENT	WHITE		
DECON-SPORE 200 PLUS (DISINFECTANT)	WHITE SEMI-TRANSPARENT	WHITE		
STEEL-BRIGHT	WHITE	WHITE		
STERI-SILICON	WHITE	BLACK		
DECON-GLASS	WHITE	WHITE		
VAI WFI QUALITY WATER	WHITE	WHITE		
STERI-WATER	WHITE	WHITE		

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Product Labeling (Continued)

ACTIVE INGREDIENTS:

Didecyl Dimethyl Ammonium Chloride..... 10.14%
Alkyl (50% C14, 40% C12, 10% C16) Dimethyl Benzyl Ammonium Chloride..... 6.76%

OTHER INGREDIENTS:..... 83.10%

TOTAL:..... 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

See side panel for additional precautionary statements.

FIRST AID

In case of emergency, call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. **IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. **IF SWALLOWED:** Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice. **IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

For chemical or environmental emergencies, call CARECHEM 24 at 866-928-0789.

Case Label: DQ200C-00 • Rev 01/23 • SDS: VEL-110 • K-22

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Patents: www.sterile.com/patents

For EPA Est. No. see the final character of the lot #:

L = 68959-PA-01, C = 68959-PA-03, T = 68959-PA-02.

EPA Reg. No. 10324-141-68959

Made in USA

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Product Labeling (Continued)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and chemical-resistant gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, oysters and shrimp.

For Disinfection Performance, Virucidal* Performance, Non-food Contact Sanitizing Performance, Fungicidal Performance, and Mildewstatic Performance, see Efficacy Test Summary starting on page 16.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Rinse hard, non-porous food contact surfaces with potable water after application of product. This product is not for use on medical device surfaces.

DILUTION TABLE

Use	Dilution	Contact Time
For Hospital or Medical Environment Disinfectant claims	0.5 oz./gal water	10 minutes
For General or Broad Spectrum Disinfectant claims	0.5 oz./gal water	10 minutes
For Public Health Virucidal* claims	0.5 oz./gal water	10 minutes
For SARS-CoV-2 claims	0.5 oz./gal water	2 minutes
For Animal Virucidal* claims	0.5 oz./gal water	10 minutes
For Animal Virucidal** claims	2.25 oz./gal water	10 minutes
For Non-Food Contact Sanitizing claims	0.5 oz./gal water	3 minutes
For Fungicidal claims	0.5 oz./gal water	10 minutes
For Mold and Mildew claims	0.5 oz./gal water	Reapply every 7 days

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Product Labeling (Continued)

FOR USE AS A ONE-STEP, GENERAL, HOSPITAL, MEDICAL DISINFECTANT, FUNGICIDE, VIRUCIDE*, CLEANER:

1. Pre-clean visibly soiled areas.
2. Prepare a solution according to SimpleMix® system container instructions or prepare a use solution of 0.5 oz. of this product per gal. of water. To disinfect hard, non-porous, non-food contact surfaces, apply use solution with a sponge, brush, cloth, mop, by immersion, coarse trigger spray device. For spray applications, spray 6 - 8 inches from surface. Do not breathe spray.
3. Treated surfaces must remain visibly wet for 2 minutes to kill SARS-CoV-2 or for 10 minutes to kill all organisms listed on the label.
4. Wipe dry with a clean cloth or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.
5. Prepare a fresh solution daily or when visibly dirty.

BLOODBORNE PATHOGEN INSTRUCTIONS

***KILLS HIV, HBV AND HCV ON PRE-CLEANED HARD, NON-POROUS SURFACES/ OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of hard, non-porous surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HBV and HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

Personal Protection: Wear protective latex gloves, gowns, masks, and eye protection. **Cleaning**

Procedure: Blood and other body fluids containing HIV-1, HBV & HCV must be thoroughly cleaned from hard, non-porous surfaces and objects before application of this product. **Disposal of Infectious**

Materials: Blood and other body fluids, cleaning materials and clothing must be autoclaved and disposed of according to federal, state, and local regulations for infectious waste disposal. **Contact Time:** Allow hard, non-porous surfaces to remain visibly wet for 2 minutes to kill HIV and 10 minutes for all organisms listed on the label.

FUNGICIDAL/MOLD/MILDEW

TO KILL FUNGI: Pre-clean heavily soiled areas. Prepare a solution according to SimpleMix System Container instructions or prepare use solution by adding 0.5 oz. of this product per gal. of water (or equivalent use dilution). Apply use solution to hard, non-porous surfaces. Allow surface to remain visibly wet for 10 minutes. Wipe surfaces and let air dry.

TO CONTROL MOLD/MILDEW: Pre-clean visibly soiled areas. Prepare a solution according to SimpleMix system container instructions or prepare use solution by adding 0.5 oz. of this product per gal. of water (or equivalent use dilution). Apply use solution to hard, non-porous surfaces which will effectively inhibit the growth of mold and mildew and their odors. Repeat treatment every 7 days, or more often if new growth appears.

Product Labeling (Continued)

NON-FOOD CONTACT SURFACE SANITIZING DIRECTIONS

NON-FOOD CONTACT SURFACE SANITIZING: Pre-clean visibly soiled areas. Prepare a solution according to SimpleMix system container instructions or add 0.5 oz. of this product per gal. of water (or equivalent use dilution). Apply solution to hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, or coarse trigger spray device. For spray applications, spray 6 - 8 inches from surface. Do not breathe spray. Treated surfaces must remain visibly wet for 3 minutes. Prepare a fresh solution daily or when visibly dirty.

DEODORIZATION/CLEANING

FOR USE AS A GENERAL CLEANER AND/OR DEODORIZER: Prepare a solution according to SimpleMix System Container Instructions or add 0.5 – 1 oz of this product per gal. of water, or prepare equivalent use dilution and apply to hard, non-porous surfaces. Rinse, wipe up excess liquid, and/or allow to air dry. Rinse with potable water after use on surfaces that come in contact with food. For heavy-duty use, mix 2 oz of this product per gal. of water to clean hard, non-porous surfaces.

GENERAL DEODORIZATION: To deodorize, apply 0.5 - 1 oz. of this product per gal. of water (or equivalent use dilution) to hard, non-porous surfaces. Rinse and allow to air dry. Rinse with potable water after use on surfaces that come in contact with food.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Store only in original container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Non-Refillable Container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.



EFFICACY TEST SUMMARY

DECON-QUAT® 200C 5th Generation Quaternary Ammonium Solution

DECON-QUAT 200C kills the following bacteria in 10 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces	
<i>Acinetobacter baumannii</i> (ATCC 19003)	<i>Listeria monocytogenes</i> (ATCC 19117)
<i>Acinetobacter lwoffii</i> (ATCC 9957)	<i>Micrococcus luteus</i> (ATCC 14452)
<i>Acinetobacter lwoffii</i> (ATCC 15309)	<i>Micrococcus luteus</i> (ATCC 4698)
<i>Bordetella bronchiseptica</i> (ATCC 10580)	<i>Mycoplasma gallisepticum</i> (ATCC 19610)
<i>Chlamydia psittaci</i> (VR-125)	<i>Pasturella multocida</i> (ATCC 12947)
<i>Citrobacter freundii</i> (ATCC 8090)	<i>Proteus vulgaris</i> (ATCC 9920)
<i>Enterobacter agglomerans</i> (ATCC 27155)	<i>Proteus vulgaris</i> (ATCC 13315)
<i>Enterobacter cloacae</i> (ATCC 13047)	<i>Pseudomonas aeruginosa</i> (ATCC 15442)
<i>Escherichia coli</i> (ATCC 11229)	<i>Pseudomonas aeruginosa</i> (Tetracycline Resistant) (ATCC 27853)
<i>Escherichia coli</i> O157:H7 (ATCC 35150)	<i>Pseudomonas cepacia</i> (ATCC 25416)
<i>Escherichia coli</i> (Carbapenem Resistant) (CDC 81371)	<i>Salmonella enterica</i> (ATCC 23564)
<i>Escherichia coli</i> (Extended Spectrum B-Lactamase) (ESBL) (ATCC BAA-196)	<i>Salmonella enterica</i> (ATCC 10708)
<i>Escherichia coli</i> (Tetracycline Resistant) (ATCC 47041)	<i>Salmonella enteritidis</i> (ATCC 4931)
<i>Enterococcus faecalis</i> (ATCC 19433)	<i>Salmonella enterica</i> serotype pullorum (ATCC 19945)
<i>Enterococcus faecalis</i> (Vancomycin Resistant) (VRE) (ATCC 51299)	<i>Salmonella typhi</i> (ATCC 6539)
<i>Enterococcus hirae</i> (ATCC 10541)	<i>Salmonella typhimurium</i> (ATCC 23564)
<i>Fusobacterium necrophorum</i> (ATCC 27852)	<i>Serratia marcescens</i> (ATCC 9103)
<i>Klebsiella aerogenes</i> (ATCC 13048)	<i>Serratia marcescens</i> (ATCC 14756)
<i>Klebsiella oxytoca</i> (ATCC 13182)	<i>Shigella flexneri</i> (ATCC 9380)
<i>Klebsiella pneumonia</i> (ATCC 13883)	<i>Shigella flexneri</i> (ATCC 12022)
<i>Klebsiella pneumoniae</i> (Carbapenem-Resistant) (NDM-1) (ATCC BAA-2146)	<i>Shigella sonnei</i> (ATCC 25931)

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Efficacy Test Summary (Continued)

<i>Staphylococcus aureus</i> (ATCC 6538)	<i>Staphylococcus haemolyticus</i> (ATCC 29970)
<i>Staphylococcus aureus</i> (ATCC 25923)	<i>Streptococcus agalactiae</i> (ATCC 13813)
<i>Staphylococcus aureus</i> (ATCC 33586)	<i>Streptococcus pneumoniae</i> (Penicillin Resistant) (ATCC 51915)
<i>Staphylococcus aureus</i> (ATCC 14154)	<i>Streptococcus pyogenes</i> (ATCC 19615)
<i>Staphylococcus aureus</i> (Community Associated Methicillin Resistant) (CA-MRSA) (Genotype USA 300)	<i>Streptococcus mutans</i> (ATCC 25175)
<i>Staphylococcus aureus</i> (Community Associated Methicillin Resistant) (CA-MRSA) (Genotype USA 400)	<i>Staphylococcus aureus</i> (Vancomycin Intermediate Resistant) (VISA) (HIP 5836)
<i>Staphylococcus aureus</i> (Methicillin Resistant) (MRSA) (ATCC 33592)	<i>Vibrio cholerae</i> (ATCC 11623)
<i>Staphylococcus epidermidis</i> (ATCC 14990)	<i>Yersinia enterocolitica</i> (ATCC 23715)
<i>Staphylococcus epidermidis</i> (Ampicillin, Cefazolin, Oxacillin, Penicillin Resistant) (ATCC 51625)	

DECON-QUAT 200C kills the following viruses in 10 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces

Avian Influenza A (H5N1) Virus (Reassortant Strain) (CDC 2006719965)	Human Coronavirus (VR-740)
Avian Influenza A (H3N2) Virus (Avian Reassortant) (VR-2072)	Human Immunodeficiency Virus Type 1*** (HIV 1) (AIDS Virus) (Strain HTLV-III _B)
Cytomegalovirus (AD-169)	Influenza A Virus (H1N1) (Strain A/PR/8/34)
Coronavirus (SARS-associated) (CDC 200300592)	Influenza A Virus (H3N2) (Hong Kong Strain) (VR-544)
Hantavirus (PHV)	Norovirus (Norwalk-like Virus) (Feline Calicivirus) (ATCC VR-782)
Hepatitis B Virus (HBV) (Duck Hepatitis B Virus)	Respiratory Syncytial Virus (VR-26)
Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus)	SARS-CoV2*** (SARS Coronavirus 2) (USA-WA1/2020) (BEI NR-52281) (COVID-19 Virus)
Herpes Simplex Virus Type 1 (VR-733)	Vaccinia Virus (VR-119)
Herpes Simplex Virus Type 2 (VR-734)	***Indicates a 2-minute contact time is required for this claim.

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Efficacy Test Summary (Continued)

DECON-QUAT 200C kills the following viruses in 10 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces

Avian Infectious Bronchitis Virus (Strain Beaudette IB42)	Feline Calicivirus (ATCC VR-782)
Avian Influenza A Virus (H5N1) (Reassortant Strain) (CDC 2006719965)	Feline Picornavirus (VR-649)
Avian Influenza A Virus (H3N2) (Avian Reassortant) (VR-2072)	Infectious Bovine Rhinotracheitis Virus (VR-188)
Canine Coronavirus (VR-809)	Pseudorabies Virus (VR-135)
Canine Distemper Virus (VR-128)	Swine Influenza A Virus (H1N1) (Strain A/Swine/1976/31)
Canine Influenza Virus (H3N8) (Cornell University)	Transmissible Gastroenteritis Virus (TGE) (Clinical Isolate)

DECON-QUAT 200C kills the following viruses in 10 minutes at 2.25 oz. per gal. of 400 ppm hard water (2970 ppm active) and 5% soil on hard, non-porous surfaces

Canine Parvovirus** (CPV) (Type 2b)	Rabies Virus (Clinical Isolate)**
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** Indicates that a dilution of 2.25 oz per gal. of water is required for this claim.

DECON-QUAT 200C is an effective one-step sanitizer in 3 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces against

<i>Klebsiella pneumonia</i> (ATCC 4352)	<i>Staphylococcus aureus</i> (ATCC 6538)
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DECON-QUAT 200C kills the following fungi in 10 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces

<i>Candida albicans</i> (ATCC 10231)	<i>Trichophyton interdigitale</i> (formerly <i>T. mentagrophytes</i>) (ATCC 9533) (Athlete's foot fungus) (Ringworm fungus)
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DECON-QUAT 200C controls the following mold for up to 7 days at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces

<i>Aspergillus niger</i> (ATCC 16404)

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Summary of Antimicrobial Test Results

General Disinfection

DECON-QUAT 200C kills the following bacteria in 10 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Carrier Population (Log ₁₀)	# Positive Carriers
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	6.41	3/60
	6.42	6/60
	6.41	4/60
<i>Salmonella enterica</i> (ATCC 10708)	6.01	1/60
		1/60
		0/60
<i>Staphylococcus aureus</i> (ATCC 6538)	6.48	2/60
	6.41	3/60
	6.56	2/60
<i>Acinetobacter baumannii</i> (ATCC 19003)	6.71	0/10
		0/10
<i>Acinetobacter lwoffii</i> (ATCC 9957)	5.60	0/10
		0/10
<i>Acinetobacter lwoffii</i> (ATCC 15309)	5.76	0/10
		0/10
<i>Bordetella bronchiseptica</i> (ATCC 10580)	6.97	0/10
		0/10
<i>Citrobacter freundii</i> (ATCC 8090)	5.59	0/10
		0/10
<i>Enterobacter agglomerans</i> (ATCC 27155)	5.59	0/10
		0/10
<i>Enterobacter cloacae</i> (ATCC 13047)	7.52	0/10
		0/10
<i>Enterococcus faecalis</i> (ATCC 19433)	5.79	0/10
		0/10
<i>Enterococcus faecalis</i> (VRE) (ATCC 51299)	7.11	0/10
		0/10
<i>Enterococcus hirae</i> (ATCC 10541)	4.38	0/10
		0/10
<i>Escherichia coli</i> (Carbapenem Resistant) (CDC 81371)	5.88	0/10
	5.52	0/10
<i>Escherichia coli</i> (ATCC 11229)	7.11	0/10
		0/10
<i>Escherichia coli</i> (ESBL) (ATCC BAA-196)	6.90	0/10
		0/10
<i>Escherichia coli</i> (Tetracycline Resistant) (ATCC 47041)	5.49	0/10
		0/10

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General Disinfection (Continued)

Organism	Carrier Population (Log ₁₀)	# Positive Carriers
<i>Escherichia coli</i> O157:H7 (ATCC 35150)	6.90	0/10 0/10
<i>Fusobacterium necrophorum</i> (ATCC 27852)	5.76	0/10 0/10
<i>Klebsiella aerogenes</i> (ATCC 13048)	7.37	0/10 0/10
<i>Klebsiella oxytoca</i> (ATCC 13182)	6.03	0/10 0/10
<i>Klebsiella pneumonia</i> (Carbapenem-Resistant) (NDM-1) (ATCC BAA-2146)	6.80	0/10 0/10
<i>Klebsiella pneumonia</i> (ATCC 13883)	6.05	0/10 0/10
<i>Listeria monocytogenes</i> (ATCC 19117)	6.89	0/10 0/10
<i>Micrococcus luteus</i> (ATCC 14452)	5.04	0/10 0/10
<i>Micrococcus luteus</i> (ATCC 4698)	5.68	0/10 0/10
<i>Mycoplasma gallisepticum</i> (ATCC 19610)	4.00	0/10 0/10
<i>Pasturella multocida</i> (ATCC 12947)	7.12	0/10 0/10
<i>Proteus vulgaris</i> (ATCC 13315)	4.28	0/10 0/10
<i>Proteus vulgaris</i> (ATCC 9920)	5.09	0/10 0/10
<i>Pseudomonas aeruginosa</i> (Tetracycline Resistant) (ATCC 27853)	6.54	0/10 0/10
<i>Pseudomonas cepacia</i> (ATCC 25416)	6.21	0/10 0/10
<i>Salmonella enterica</i> (ATCC 23564)	4.96	0/10 0/10
<i>Salmonella enterica</i> serotype pullorum (ATCC 19945)	5.85	0/10 0/10
<i>Salmonella enteritidis</i> (ATCC 4931)	5.11	0/10 0/10
<i>Salmonella typhi</i> (ATCC 6539)	6.92	0/10 0/10
<i>Salmonella typhimurium</i> (ATCC 23564)	5.75	0/10 0/10
<i>Serratia marcescens</i> (ATCC 14756)	6.79	0/10 0/10

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General Disinfection (Continued)

Organism	Carrier Population (Log ₁₀)	# Positive Carriers
<i>Serratia marcescens</i> (ATCC 9103)	6.78	0/10 0/10
<i>Shigella flexneri</i> (ATCC 12022)	4.41	0/10 0/10
<i>Shigella flexneri</i> (ATCC 9380)	6.30	0/10 0/10
<i>Shigella sonnei</i> (ATCC 25931)	6.02	0/10 0/10
<i>Staphylococcus aureus</i> (ATCC 14154)	5.96	0/10 0/10
<i>Staphylococcus aureus</i> (ATCC 25923)	5.82	0/10 0/10
<i>Staphylococcus aureus</i> (CA-MRSA) (Genotype USA400)	6.80	0/10 0/10
<i>Staphylococcus aureus</i> (CA-MRSA) (Genotype USA300)	5.01	0/10 0/10
<i>Staphylococcus aureus</i> (ATCC 33586)	4.86	0/10 0/10
<i>Staphylococcus aureus</i> (MRSA) (ATCC 33592)	6.73	0/10 0/10
<i>Staphylococcus aureus</i> (VISA) (HIP 5836)	6.51	0/10 0/10
<i>Staphylococcus epidermidis</i> (ATCC 14990)	6.19	0/10 0/10
<i>Staphylococcus epidermidis</i> (MDR) (ATCC 51625)	5.93	0/10 0/10
<i>Staphylococcus haemolyticus</i> (ATCC 29970)	5.98	0/10 0/10
<i>Streptococcus agalactiae</i> (ATCC 13813)	6.75	0/10 0/10
<i>Streptococcus mutans</i> (ATCC 25175)	4.11	0/10 0/10
<i>Streptococcus pneumoniae</i> (Penicillin Resistant) (ATCC 51915)	4.98	0/10 0/10
<i>Streptococcus pyogenes</i> (ATCC 19615)	4.67	0/10 0/10
<i>Vibrio cholera</i> (ATCC 11623)	6.00	0/10 0/10
<i>Yersinia enterocolitica</i> (ATCC 23715)	7.08	0/10 0/10
<i>Chlamydia psittaci</i> * (VR-125)	7.25	≥6.75 ≥6.75

*Note – *Chlamydia psittaci* evaluated by ASTM E1053. Results shown are in Log₁₀ bacterial reduction.

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Virucidal Disinfection

DECON-QUAT 200C kills the following viruses in 10 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Virus Population (Log ₁₀)	Log Reduction (Log ₁₀)
Avian Influenza A Virus (H5N1) (CDC 2006719965)	5.60	≥3.50 ≥3.50
Avian Influenza A Virus (H3N2) (VR-2072)	4.75	≥4.25 ≥4.25 ≥4.25
Cytomegalovirus (AD-169)	5.10	≥3.00 ≥3.00
Coronavirus (SARS-associated) (CDC 200300592)	6.10	≥4.00 ≥4.00
Hantavirus (PHV)	5.00	≥3.50 ≥3.50
Hepatitis B Virus (HBV) (Duck Hepatitis B Virus)	4.79 4.79	4.79 4.79 4.79
Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus)	5.88 5.93	5.88 5.88 5.93
Herpes Simplex Virus Type 1 (VR-733)	5.50	≥5.00 ≥5.00
Herpes Simplex Virus Type 2 (VR-734)	6.00	≥5.50 ≥5.50
Human Coronavirus (VR-740)	4.50	≥4.00 ≥4.00
Human Immunodeficiency Virus Type 1*** (AIDS Virus) (HTLV-III _B)	5.00	≥4.50 ≥4.50
Influenza A Virus (H1N1) (Strain A/PR/8/34)	5.60	≥3.50 ≥3.50
Influenza A Virus (H3N2) (VR-544)	6.50	≥6.00 ≥6.00
Norovirus (ATCC VR-782)	5.89	4.39 3.92
Respiratory Syncytial Virus (VR-26)	4.50	≥4.00 ≥4.00
SARS-CoV-2 (COVID-19 virus) (2019-nCoV)*** (USA-WA1/2020)	5.75	≥5.25 ≥5.00 ≥5.25
Vaccinia Virus (VR-119)	6.75	≥6.25 ≥6.25

***Indicates a 2-minute contact time required

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Animal Premise Virucidal Disinfection

DECON-QUAT 200C kills the following viruses in 10 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Virus Population (Log ₁₀)	Log Reduction (Log ₁₀)
Avian Infectious Bronchitis Virus (Strain Beaudette IB42)	6.42	≥5.92 ≥5.92
Avian Influenza A Virus (H5N1) (CDC 2006719965)	5.60	≥3.50 ≥3.50
Avian Influenza A Virus (H3N2) (VR-2072)	4.75	≥4.25 ≥4.25 ≥4.25
Canine Coronavirus (VR-809)	4.50	≥4.00 ≥4.00
Canine Distemper Virus (VR-128)	6.25	≥5.75 ≥5.75
Canine Influenza Virus (H3N8) (Cornell University)	6.00	≥5.50 ≥5.50
Feline Calicivirus (VR-782)	5.89	4.39 3.92
Feline Picornavirus (VR-649)	4.50	≥4.00 ≥4.00
Infectious Bovine Rhinotracheitis Virus (VR-188)	4.50	≥4.00 ≥4.00
Pseudorabies Virus (VR-135)	6.25	≥5.75 ≥5.75
Swine Influenza A Virus (H1N1) (Strain A/Swine/1976/31)	5.35	≥3.25 ≥3.25
Transmissible Gastroenteritis Virus (TGE)	4.75	≥4.25 ≥4.25

DECON-QUAT 200C kills the following viruses in 10 minutes at 2.25 oz. per gal. of 400 ppm hard water and 5% soil on hard, non-porous surfaces:

Organism	Virus Population (Log ₁₀)	Log Reduction (Log ₁₀)
Canine Parvovirus CPV (CPV) (Type 2b)	7.50	4.00 4.00
Rabies	5.35	≥3.25 ≥3.25

Non-Food Contact Sanitizing

DECON-QUAT 200C is an effective one-step sanitizer in 3 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Average Population (Log ₁₀)	Log Reduction (Log ₁₀)
<i>Klebsiella pneumonia</i> (ATCC 4352)	6.04	≥4.56 ≥4.17 ≥4.56
<i>Staphylococcus aureus</i> (ATCC 6538)	6.69	≥5.21 ≥5.21 ≥5.21

Mildewstatic Disinfection

DECON-QUAT 200C controls the following mold for up to 7 days at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Tile	Untreated (% Covered)	7 days Post Treatment (% Covered)
<i>Aspergillus niger</i> (ATCC 16404)	1	90%	0%
	2	70%	0%
	3	90%	0%
	4	80%	0%
	5	80%	0%
	6	90%	0%
	7	80%	0%
	8	70%	0%
	9	90%	0%
	10	70%	0%

Fungicidal Disinfection

DECON-QUAT 200C kills the following fungi in 10 minutes at 0.5 oz. per gal. of 400 ppm hard water (660 ppm active) and 5% soil on hard, non-porous surfaces:

Organism	Carrier Population (Log ₁₀)	# Positive Carriers
<i>Candida albicans</i> (ATCC 10231)	5.75	0/10 0/10
<i>Trichophyton mentagrophytes</i> (ATCC 9533)	4.78	0/10 0/10

Additional Documentation

Upon request, the following additional documentation is available:

- Product Testing Reports
- Product Labels
- Product Validation
- Safety Data Sheet (SDS)
- Sample lot specific documentation packages delivered with lot specific analytical, irradiation, and sterility data, tested to current USP compendium



VAI's SCMD Family of Products

VAI's Sterile Chemical Manufacturing Division (SCMD) manufactures a complete range of cleaning agents and disinfectants that are used daily in cleanroom operations. Overall, VAI's capabilities for manufacturing products include the ability to fill aerosol, bulk, and unit dose packages in ISO 5 or 7 (Grade A/B). Our aseptic filling operations are coupled with the validated and proven ability to irradiate a final product. Assurances are taken in every aspect of SCMD concerning sterility and particulate removal. VAI's operations mirror current GMP's and enforces the adherence to USP specifications. VAI is an EPA and FDA registered facility.

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