

EPA Reg. No. 42182-9



PRODUCT DESCRIPTION

Sani-24® Germicidal Spray gives you the power with around the clock protection. It is the first, and only, EPA-registered disinfectant with the ability to control HAI-causing microorganisms with Continuously Active Disinfection for up to 24 hours¹.

CHEMICAL COMPOSITION

Active Ingredients:

Alkyl dimethyl benzyl ammonium chloride (50% C_{14} , 40% C_{12} , 10% C_{16})	0.276%
Didecyl dimethyl ammonium chloride	0.104%
Octyl decyl dimethyl ammonium chloride	0.207%
Dioctyl dimethyl ammonium chloride	0.104%
Ethanol	68.610%
Other ingredients	30.699%
TOTAL	100.000%





EFFICACY

ENVELOPED VIRUSES-10 SECONDS: Hepatitis B Virus (HBV) (Duck Hepatitis B virus as Surrogate)

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces
Organic Soil Load: Whole duck serum (100% duck serum) with an additional 5% fetal bovine serum

Exposure Time: 10 seconds

Results: The results demonstrated complete inactivation of Duck Hepatitis B virus following

a 10 second exposure time at 20±1°C (21.0°C), as required by the U.S. EPA

Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus as Surrogate)

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% horse serum Exposure time: 10 seconds

Results: The results demonstrated complete inactivation of Bovine Viral Diarrhea Virus

following a 10 second exposure time at 20±1°C (21.0°C), as required by the U.S. EPA

Herpes simplex virus type 1 [ATCC VR-733]

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% fetal bovine serum

Exposure time: 10 seconds

Results: The results indicate complete inactivation of Herpes simplex virus type 1 under

these test conditions as required by the U.S. EPA

Herpes simplex virus type 2 [ATCC VR-734] [Strain G]

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% fetal bovine serum

Exposure time: 10 seconds

Results: The results indicate complete inactivation of Herpes simplex virus type 2 under

these test conditions as required by the U.S. EPA

Human Coronavirus [ATCC VR-740] [Strain 229E]

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% fetal bovine serum

Exposure time: 10 seconds

Results: The results indicate complete inactivation of Human Coronavirus under these

test conditions as required by the U.S. EPA

Human Immunodeficiency virus type 1 (HIV) [Strain HTLV-III_R]

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% fetal bovine serum

Exposure time: 10 seconds

Results: The results indicate complete inactivation of Human Immunodeficiency virus

type 1 (HIV) under these test conditions as required by the U.S. EPA

Avian Influenza A (H3N2) Reassortant virus [ATCC VR-2072]

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% fetal bovine serum

Exposure time: 10 seconds

Results: The results indicate complete inactivation of Avian Influenza A (H3N2) Reassortant

virus under these test conditions as required by the U.S. EPA

2009-H1N1 Influenza A virus (Novel H1N1) CDC 2009712192

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% fetal bovine serum

Exposure time: 10 seconds

Results: The results indicate complete inactivation of 2009-H1N1 Influenza A virus

(Novel H1N1) under these test conditions as required by the U.S. EPA



ENVELOPED VIRUS- 10 SECONDS: Respiratory Syncytial virus (RSV) [ATCC VR-26]

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% fetal bovine serum

Exposure time: 10 seconds

Results: The results indicate complete inactivation of Respiratory syncytial virus (RSV)

under these test conditions as required by the U.S. EPA

BACTERIA-1 MINUTE: Acinetobacter baumannii Multi-drug resistant (MDR) [ATCC BAA-1605]

Enterobacter aerogenes [ATCC 13048]

Escherichia coli ESBL (Extended spectrum beta-lactamase) [ATCC BAA-196]

Escherichia coli 0157:H7 [ATCC 35150]

Enterococcus faecalis VRE (Vancomycin resistant enterococcus) [ATCC 51575]

Klebsiella pneumoniae CRE (Carbapenem resistant Enterobacteriaceae) [ATCC BAA-2146]

Pseudomonas aeruginosa [ATCC 15442] Salmonella enterica [ATCC 10708] Staphylococcus aureus [ATCC 6538]

Staphylococcus aureus (Methicillin Resistant) (MRSA) [ATCC 33592]
Staphylococcus epidermidis (Methicillin Resistant) (MRSE) [ATCC 51625]
Staphylococcus aureus (VISA) (Vancomycin–Intermediate) [HIP5836]
Staphylococcus aureus (VRSA) (Vancomycin–Resistant) [HIP11714]

Test Method Used: GLP AOAC Germicidal Spray Products Test

Organic Soil Load: 5% fetal bovine serum

Exposure time: 1 minute
Incubation: 46–50 hours
Results: Passed

CONTINUOUSLY ACTIVE DISINFECTION

BACTERIA-5 MINUTE: Enterobacter aerogenes ATCC 13048

Enterococcus faecalis VRE (Vancomycin resistant enterococcus) ATCC 51575

Pseudomonas aeruginosa ATCC 15442 Staphylococcus aureus ATCC 6538

Staphylococcus aureus (Methicillin Resistant) (MRSA) ATCC 33592

Test method used: Modified EPA 01-1A for hospital use claims

Organic Soil Load: 5% fetal bovine serum

Dry Contact time: 5 minutes
Incubation: 46–50 hours
Results: 99.999% reduction

HARD, NONPOROUS NON-FOOD-CONTACT SURFACE SANITIZATION

BACTERIA-10 SECONDS: Enterobacter aerogenes ATCC 13048
Staphylococcus aureus ATCC 6538

Test method: ASTM E 1153

Organic Soil Load: 5% Fetal Bovine Serum

Incubation: 46–50 hours
Results: 99.9% reduction

SOFT SURFACE SPOT SANITIZATION

BACTERIA-10 SECONDS: Enterobacter aerogenes ATCC 13048

Staphylococcus aureus ATCC 6538

Test method: Modified ASTM E 1153
Organic Soild Load: 5% Fetal Bovine Serum

Incubation: 46–50 hours
Results: 99.9% reduction



STANDARD DISINFECTION LARGE NON-ENVELOPED

VIRUS-2 MINUTES: Rotavirus [ATCC VR-2018]

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% fetal bovine serum

Exposure time: 2 minutes

Results: The results indicate complete inactivation of Rotavirus under these test

conditions as required by the U.S. EPA.

TB–3 MINUTES: Mycobacterium bovis-BCG

Test Method Used: AOAC Tuberculocidal Activity of Disinfectant Spray Products

Organic Soil Load: 5% fetal bovine serum

Exposure time: 3 minutes

Results: No growth observed

FUNGI–3 MINUTES: Aspergillus niger [ATCC 6275]

Candida albicans [ATCC 10231]

Trichophyton interdigitale [ATCC 9533]

Test Method Used: Fungicidal Germicidal Spray Method

Organic Soil Load: 5% fetal bovine serum

Exposure time: 3 minutes

Results: No growth observed

SMALL NON-ENVELOPED

VIRUSES-5 MINUTES: Norovirus (Feline Calicivirus as surrogate) [ATCC VR-782]

Poliovirus type 1 [ATCC VR-1562]

Test Method Used: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

Organic Soil Load: 5% fetal bovine serum

Exposure time: 5 minutes

Results: No growth observed

TOXICITY

ACUTE INHALATION

Based on the inhalation test results, Sani-24 Germicidal Spray has been classified as Toxicity Category IV for acute inhalation.

ACUTE ORAL TOXICITY

Based on the results of this study, Sani-24 Germicidal Spray has been classified as Toxicity Category IV for acute oral toxicity.

ACUTE EYE IRRITATION

Based on the results of this study, **Sani-24** Germicidal Spray produced eye irritation that indicates the product would be classified as Toxicity Category II for acute eye irritation.

ACUTE DERMAL TOXICITY

Based on the results of this study, Sani-24 Germicidal Spray has been classified as Toxicity Category IV for dermal toxicity.

ACUTE DERMAL IRRITATION

Based on the results of primary skin irritation study, **Sani-24** Germicidal Spray has been classified as Toxicity Category IV for dermal effects.

DERMAL SENSITIZATION

Based upon the sensitization test results, Sani-24 Germicidal Spray would not be considered a dermal sensitizing agent.

1. These 5 organisms are: Enterobacter aerogenes, Enterococcus faecalis VRE (Vancomycin resistant enterococcus), Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus aureus MRSA (Methicillin Resistant)

