Technical Data Bulletin

Sani-24®

EPA Reg. No. 42182-13-9480 (wipe)
EPA Reg. No. 42182-9-9480 (spray)

Product Description

Sani-24® Germicidal Spray and Wipes give 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 hours[1].

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%

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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
	Severe Acute Respiratory Syndrome-Related Coronavirus 2 (SARS-CoV-2) (Strain: USA-WA1/2020)
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 Severe Acute Respiratory Syndrome-Related Coronavirus 2 (SARS-CoV-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-lll_B]
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

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

Efficacy

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 O157: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 minutes:	*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

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. CAD addresses *Acinetobacter baumannii* MDR, *Enterobacter aerogenes, Enterobacter aerogenes* MDR, *Enterococcus faecalis* VRE (Vancomycin resistant enterococcus), New Delhi Metallo-beta-lactamase-1 (NDM-1) producing *Klebsiella pneumoniae* (CRE – Carbapenem resistant *Enterobacteriaceae), Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus aureus* MSRA (Methicillin Resistant).

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