Now effective against SARS-CoV-2, the virus that causes COVID-19.

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 hours¹.

Chemical Composition
Active Ingredients:
- Alkyl dimethyl benzyl ammonium chloride (50% C₁₄, 40% C₁₂, 10% C₁₀).................................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

Standard Disinfection

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) [Oregon C24v-genotype 1]
  
  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] [F(1)]
  
  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)
  
  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-III]
  
  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
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Avian Influenza A (H3N2) Reassortant virus [ATCC VR-2072]
[A/Washington/897/80 x A/Mallard/New York/6750/78]

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] [A/Mexico/4108/2009]

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

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 MDR (Multi-drug resistant) ID#: [ATCC BAA-1605]
Enterobacter aerogenes [ATCC 13048]
Enterobacter aerogenes MDR (Multi-drug Resistant) ID #: [ATCC 29751]
Enterococcus faecium MDR (Multidrug Resistant) ID #: [ATCC 51559]
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]
New Delhi metallo-beta-lactamase-1 (NDM-1) producing Klebsiella pneumoniae (CRE - Carbapenem resistant Enterobacteriaceae) ID #: [ATCC BAA-2146]
Pseudomonas aeruginosa [ATCC 15442]
Pseudomonas aeruginosa MBL (Metallo beta-lactamase positive) ID#: [CDC AR-0246/PSA-18]
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, AOAC Germicidal Spray Products as Disinfectants Test modified for towelettes
Organic Soil Load: 5% fetal bovine serum
Exposure time: 1 minute
Incubation: 46–50 hours
Results: Passed

Fungi – 1 minute:

Candida albicans [ATCC 10231]

Test Method Used: Fungicidal Germicidal Spray Method, AOAC Fungicidal Germicidal spray products as disinfectants modified for towelettes
Organic Soil Load: 5% fetal bovine serum
Exposure time: 1 minute
Results: No growth observed
Large Non-enveloped Virus – 2 minutes:
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.

Fungi – 3 minutes (spray only):
Test Method Used: Fungicidal Germicidal Spray Method
Organic Soil Load: 5% fetal bovine serum
Exposure time: 3 minutes
Results: No growth observed

Fungi – 5 minutes:
Test Method Used: Fungicidal Germicidal Spray Method, AOAC Fungicidal Germicidal spray products as disinfectants modified for towelettes
Organic Soil Load: 5% fetal bovine serum
Exposure time: 5 minutes (wipe); 3 minutes (spray)
Results: No growth observed

Small Non-enveloped Viruses – 5 minutes:
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

TB – 5 minutes:
Test Method Used: AOAC Tuberculocidal Activity of Disinfectant Spray Products, AOAC Tuberculocidal Activity of Germicidal Spray Products as Disinfectants Test modified for towelettes
Organic Soil Load: 5% fetal bovine serum
Exposure time: 5 minutes (wipe); 3 minutes (spray)
Results: No growth observed

Continuously Active Disinfection

Bacteria* – 5 minutes:
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 Soil Load:**
5% Fetal Bovine Serum

**Incubation:**
46–50 hours

**Results:**
99.9% reduction

**TOXICITY**

**Acute Inhalation**
Based on the inhalation test results, Sani-24 Disinfectant has been classified as Toxicity Category IV for acute inhalation.

**Acute Oral Toxicity**
Based on the results of this study, Sani-24 Disinfectant has been classified as Toxicity Category IV for acute oral toxicity.

**Acute Eye Irritation**
Based on the results of this study, Sani-24 Disinfectant 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 Disinfectant has been classified as Toxicity Category IV for dermal toxicity.

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

**Dermal Sensitization**
Based upon the sensitzation test results, Sani-24 Disinfectant would not be considered a dermal sensitizing agent.