



# HANDS Antibacterial Wipes

## PRODUCT DESCRIPTION

**Sani Professional®** Hands Antibacterial Wipes are disposable nonwoven cloths pre-saturated with an antibacterial ingredient that reduces bacteria on the skin. Contains Aloe to moisturize the skin. Ideal for use when soap and water are not readily available. Effectively kills 99.99% of harmful bacteria on hands within 30 seconds.



**FIND IT IN OUR NEW, COLOR-CODED PACKAGE:  
“PURPLE FOR HANDS”.**

## CHEMICAL COMPOSITION/PRODUCT DATA:

Active Ingredients: Benzalkonium Chloride	0.13% w/w
Inactive Ingredients: Purified Water, SD Alcohol 40, Sorbic Acid, PPG-2 Hydroxyethyl Cocamide, Disodium EDTA, Aloe Barbadensis Leaf Juice, Fragrance	99.87% w/w
<b>Total</b>	<b>100%</b>

(Does not include weight of the wipe)



## EFFICACY STUDIES

## IN-VITRO TIME KILL STUDIES

## Bacterial Studies

**Purpose** – To determine how rapidly and effectively **Sani Professional** Hands Antibacterial Wipes killed a variety of Gram negative and Gram positive microorganisms within a 15-second and 30-second exposure period.

**Methodology** – Fluid from the wipe was expressed aseptically and transferred to sterile tubes. The tubes were subsequently inoculated with the broth culture of each test microorganism containing up to  $10^8$  cfu/ml. After 15-second and 30-second intervals, the entire inoculated volume of **Sani Professional** Hands Antibacterial Wipes liquid was transferred to neutralizers and incubated. Serial dilutions were plated using standard plating techniques, and percent reductions for each organism were calculated.

Independent Laboratory: Mycoscience Labs, Willington, CT:  
June 28, 2004

Chart 1: Percent Reduction After Exposure

Microorganism	Classification	ATCC#	15 Sec % Reduction	30 Sec % Reduction
<i>Listeria monocytogenes</i>	Gram positive bacteria	15313	>99.999%	>99.999%
<i>Staphylococcus aureus</i>	Gram positive bacteria	6538	>99.9%	>99.999%
<i>Staphylococcus epidermidis</i>	Gram positive bacteria	12228	>99.999%	>99.999%
<i>Community Acquired Methicillin Resistant Staphylococcus aureus (CA-MRSA), Genotype USA 300 (NARSA NRS 384)</i>	Gram positive bacteria	—	99.9%	>99.999%
<i>Community Acquired Methicillin Resistant Staphylococcus aureus (CA-MRSA), Genotype USA 400 (NARSA NRS 123)</i>	Gram positive bacteria	—	>99.9%	>99.999%
<i>Methicillin Resistant Staphylococcus aureus (HA-MRSA)</i>	Gram positive bacteria	51575	>99.999%	>99.999%
<i>Vancomycin Resistant Enterococcus faecalis (VRE)</i>	Gram positive bacteria	33591	99.9%	>99.999%
<i>Streptococcus pneumoniae</i>	Gram positive bacteria	6305	>99.999%	>99.999%
<i>Streptococcus pyogenes</i>	Gram positive bacteria	9342	99.999%	—
<i>Campylobacter jejuni</i>	Gram negative bacteria	29428	>99.99%	>99.99%
<i>Escherichia coli</i>	Gram negative bacteria	11229	99.999%	—
<i>Pseudomonas aeruginosa</i>	Gram negative bacteria	15442	90.0%	99.9%
<i>Shigella sonnei</i>	Gram negative bacteria	25931	>99.9%	>99.999%

## EFFICACY STUDIES

## IN-VITRO TIME KILL STUDIES

## Viral Studies

**Purpose** – To evaluate the antiviral properties of **Sani Professional** Hands Antibacterial Wipes when exposed to four different virus strains (in suspension) for a 15-second exposure.

**Methodology** – Fluid from the wipe was expressed aseptically and transferred to sterile tubes. The tubes were subsequently inoculated with the virus suspension and held for the 15-second exposure period. After the exposure period, a small aliquot was removed and assayed for the presence of virus.

**Conclusion** – A >99% reduction against each of the four viral titers following a 15-second exposure period.

*Independent Laboratory: ATS Labs, Eagan, MN: June 28, 2004*

Chart 2: Percent Reduction After Exposure

Virus	Classification	ATCC#	15 Sec % Reduction	30 Sec % Reduction
<i>HIV Virus Type 1, Strain HTLV-III<sub>B</sub></i>	Virus	—	≥99.94%	—
<i>2009-H1N1 Influenza A virus (Novel H1N1), Strain A/Mexico/4108/2009/CDC # 2009712192</i>	Virus	—	≥99.99%	—
<i>Influenza A H1N1</i>	Virus	VR-1469	>99.9%	—
<i>Rhinovirus type 16, Strain 11757</i>	Virus	VR-283	≥99.4%	—

*\*The 1994 FDA Tentative Final Monograph does not comment on viral efficacy of hand hygiene products.*

## Top Foodborne Pathogens In A Foodservice Environment And Their Sources

**Sani Professional** Hands Antibacterial Wipes have been proven effective against the following common foodborne pathogens:



### BACTERIA & COMMON SYMPTOMS:

### SOURCES:

***Staphylococcus aureus* ATCC# 6538**  
Nausea, vomiting, and stomach cramps.  
Most people also have diarrhea

Foods that are not cooked after handling, such as sliced meats, puddings, pastries, and sandwiches

***Escherichia coli*\* ATCC# 11229**  
Severe diarrhea that is often bloody, severe abdominal pain, and vomiting

Undercooked ground beef, unpasteurized (raw) milk or juice, soft cheeses made from raw milk, and raw fruits and vegetables (such as sprouts)

***Listeria monocytogenes*\* ATCC# 15313**  
Fever, stiff neck, confusion, weakness, vomiting, sometimes preceded by diarrhea

Ready-to-eat deli meats and hot dogs; refrigerated pâtés or meat spreads; unpasteurized (raw) milk and dairy products; soft, unpasteurized cheeses (e.g., queso fresco, Feta, Brie, Camembert); refrigerated smoked seafood; raw sprouts

***Campylobacter jejuni* ATCC# 29428**  
Diarrhea, abdominal cramps, fever, and vomiting; diarrhea may be bloody.

Raw or undercooked poultry, unpasteurized (raw) milk, contaminated drinking water

***Shigella sonnei* ATCC# 11060**  
Diarrhea (often bloody), fever, and stomach cramps

Raw produce, contaminated drinking water, uncooked foods and cooked foods that are not reheated after contact with an infected food handler

\*99.999% reduction of the microorganisms achieved within 15 seconds

Source: [www.cdc.gov/foodsafety](http://www.cdc.gov/foodsafety)

## ADDITIONAL INFORMATION AND TESTING

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### SAFETY

#### Acute Dermal Irritation Potential

**Description – Sani Professional** Hands Antibacterial Wipes were evaluated to determine the dermal irritation potential following Acute Irritation Study protocol OPTTS 870.2500.

**Results – Sani Professional** Hands Antibacterial Wipes resulted in a 0 index or non-irritant descriptive rating and are therefore classified as Toxicity Category IV for dermal effects.

#### Acute Eye Irritation Potential

**Description – Sani Professional** Hands Antibacterial Wipes were evaluated for eye irritation potential in accordance with Acute Eye Irritation Study protocol OPTTS/ OECD Guidelines.

**Results – Sani Professional** Hands Antibacterial Wipes resulted as causing moderate eye irritation and is therefore classified as Toxicity Category III for ocular effects.

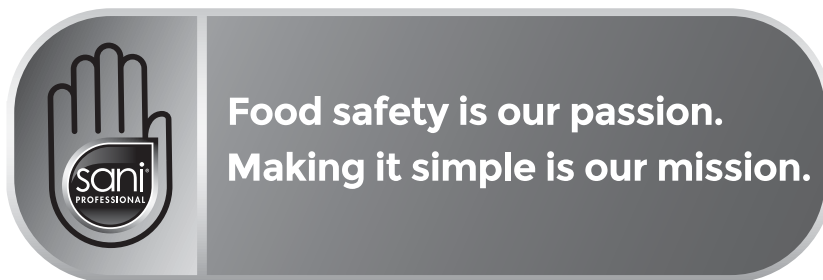
### FOODSERVICE INFORMATION AND TESTING

#### NSF Nonfood Compounds Registration #151433 Category E3

This product is acceptable for use as a hand sanitizing product in and around food processing areas.

#### Kills Top Foodborne Pathogens

Tested 99.99% effective in 30 seconds against *Campylobacter jejuni*, *Listeria monocytogenes*, *Escherichia coli*, *Shigella sonnei*, and *Staphylococcus aureus*.



Made in USA with domestic and imported materials