

PURELL[®] Hand Sanitising Gel VF481TM

DIRECTIONS AND METHOD OF USE:

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For a Hygienic hand rub: Use 3 mL of product in the palm of your hands, and rub until it fully evaporates (circa 30 seconds), without forgetting fingemails, thumbs, between fingers, and wrists. **For Surgical hand disinfection**: Wash hands, forearms and elbows. Brush fingernails for 1 minute (30 seconds per hand). Rinse. Dry hands completely. 1st stage of surgical disinfection: rub 3 mL portions of product onto your hands, both sides of the wrists, forearms and the whole of the elbows and keep them wet with as much product as necessary for 30 seconds. 2nd stage: Repeat rubbing into forearms (excluding elbows) paying particular attention to edges of fingernails and between the fingers. Continue rubbing for at least 30 seconds until dry. Surgical disinfection is achieved after a 60 second total application.





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Ingredients

INCI Name* Ingredient Class		
Alcohol	Antimicrobial Agent	
Aqua	Carrier	
Isopropyl Alcohol	Solvent, Denaturant	
Diisopropyl Sebacate	Emollient, Skin Moisturizer	
Polyquaternium-37	Thickener, Stabilizer, and Conditioning Agent	
PEG/PPG-20/6 Dimethicone	Surfactant, Emulsifying Agent	
Copper Gluconate	Moisturizer	
Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate	yl Antioxidant	

*International Nomenclature Cosmetic Ingredient

Document #: 9900-501

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Irritancy Data and Allergy Test Results

21 Day Cumulative Irritancy Assay with Delayed Challenge

Objective: Description of Test: Evaluation of skin irritation potential in humans. Patches were applied to the same sites every day (except Sundays) for three (3) consecutive weeks for a total of 18 applications. Patch test sites were evaluated and recorded daily. Scores recorded on Monday visits were "carried back" and used for Sunday scores resulting in the collection of 21 days of irritation data. RCTS, INC. Irving, Texas USA

Independent Laboratory: Date:

Results: ans 080 50 77 barjans.si Conclusions: June 14, 2007

Average Score = 0.07 (scale 0 – 4); No sensitization and ans occurred. 080 50 77 | barjans.si 080 50 77 | barjans.si Mild in use. Product showed no evidence of inducing contact sensitization in healthy, human subjects.

Human Repeated Insult Patch Test

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Objective:	Determination of the dermal irritation and sensitization potential of the product.
Description of Test:	Human repeated insult patch test.
Independent Laboratory:	Clinical Research Laboratories, Inc., Piscataway, New Jersey USA
Date:	May 3, 2007
Results:	No visible skin reactions were observed during the induction or challenge phases of the study.
Conclusions:	Test product demonstrated no potential for eliciting either dermal irritation or sensitization.











Exaggerated Hand Wash

Objective:

Description of Test:

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Independent Laboratory: Date:

Results:

Conclusions:

To determine the skin performance of a hand hygiene product when used with high frequency To replicate the damaged skin of health care workers, subjects underwent a 7 day wash out period where lvory® bar soap was applied for 9 consecutive washes per day and used exclusively for hand washing throughout the wash out period. During the test period, instant hand sanitizer was applied 25 times a day for 4 consecutive days to emulate the high frequency use conditions of a healthcare setting. Each day, baseline and post-wash corneometer (skin hydration) measurements, transepidermal water loss (skin barrier integrity) measurements, clinical grading of erythema, clinical grading of dryness, and subject self-assessment of dryness, redness, tightness, and overall skin condition were captured. 080 50 77 | barjans.si RCTS, INC. Irving, Texas USA

July 2, 2007

Corneometer and transepidermal water loss results indicate that 100 applications of PURELL® VF481[™] maintained skin hydration and the skin barrier integrity. Expert evaluations revealed no significant differences in erythema or dryness. Subject self-assessment of dryness showed significant decreases in dryness after 50 and 100 washes. No differences were seen in subject selfassessment of skin redness or tightness. Although there were no significant differences, subject self-assessment of overall skin condition was highly suggestive of an improvement after 50 and 100 washes.

These results indicate that repeated use of PURELL® VF481[™] helps maintain skin condition and skin barrier integrity. In addition, this formulation is mild enough for high frequency use.













Efficacy Data – European Standards

European Standard EN 14476:2005 Test

Objective:

Description of Test:

Independent Laboratory: S Date: 77 barjans.si

Conclusions:

To evaluate the virus-inactivating properties of the test product against adenovirus type 5. European standard EN 14476:2005: Virucidal Quantitative Suspension Test for Chemical Disinfectants and Antiseptics used in Human Medicine (phase 2, step 1) MikroLab GmbH, Bremen, Germany

June 29, 2007^{0 50 77} | barjans.si

According to EN 14476:2005, the test product demonstrated effectiveness undiluted against adenovirus type 5 after a contact time of 60 seconds. Therefore, the test product can be declared as virucidal against adenovirus type 5.

To evaluate the virus-inactivating properties of the test

Suspension Test for Chemical Disinfectants and Antiseptics used in Human Medicine (phase 2, step 1)

European standard EN 14476:2005: Virucidal Quantitative

European Standard EN 14476:2005 Test

product against poliovirus type 1.

MikroLab GmbH, Bremen, Germany

Objective:

Description of Test:

Independent Laboratory:

Date: Document #: 9900-501 June 29, 2007







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Conclusions:

According to EN 14476:2005, the test product demonstrated effectiveness undiluted against poliovirus type 1 after a contact time of 90 seconds. Therefore, the test product can be declared as virucidal against poliovirus type 1.

European Standard prEN 13727 (April 2006) Test

Objective: Description of Test:

Independent Laboratory: S Date: 77 | barjans.si

Conclusions:

To determine basic bactericidal activity of test product. European Norm prEN 13727 DRAFT FOR REVISION (April 2006): Quantitative suspension test for the evaluation of bactericidal activity in the medical area (phase 2, step 1).

HygCen Centrum für Hygiene und medizinische Produktsicherhelt GmbH, Schwerin, Germany August 8, 2007 50 77 | barians.si



According to prEN 13727 DRAFT FOR REVISION (April 2006), the test product possesses a bactericidal activity under clean conditions (0.03% albumine) in 15 seconds at 20°C for the referenced strains *Staphylococcus aureus* ATCC 6538, *Enterococcus hirae* ATCC 10541, *Escherichia coli* NCTC 10538 and *Pseudomonas aeruginosa* ATCC 15442 when diluted at 80% and 75% (v/v) in distilled water.

European Standard DIN EN 1040 (March 2006) Test

Objective: Description of Test: To determine basic bactericidal activity of test product. European Norm DIN EN 1040 (March 2006): Quantitative suspension test for the evaluation of basic bactericidal activity of chemical disinfectants and antiseptics (phase 1).









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Conclusions:

Laboratory:

Date:

HygCen Centrum für Hygiene und medizinische Produktsicherhelt GmbH, Schwerin, Germany May 8, 2007

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According to DIN EN 1040 (March 2006), the test product possesses a bactericidal activity at 20°C in 30 seconds for the referenced strains *Staphylococcus aureus* ATCC 6538 and *Pseudomonas aeruginosa* ATCC 15442 when diluted at 90% and 50% in distilled water.

European Standard DIN EN 1275 (March 2006) Test

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Objective:	To determine yeasticidal activity of test product.
Description of Test:	European Norm DIN EN 1275 (March 2006): Quantitative barjans si suspension test for the evaluation of basic fungicidal or
	basic yeasticidal activity of chemical disinfectants and antiseptics (phase 1).
Independent	HygCen Centrum für Hygiene und medizinische
Laboratory:	Produktsicherhelt GmbH, Schwerin, Germany
Date:	May 8, 2007
Conclusions:	According to DIN EN 1275 (March 2006) the test product
	possesses a yeasticidal activity at 20°C in 30 and 60
	10221 when diluted at 90% (v/v) in distilled water
	10231 when under at $30%$ (v/v) in distined water.

European Standard DIN EN 1275 (March 2006) Test

Objective:	To determine fungicidal activity of test product.		
Description of Test:	European Norm DIN EN 1275 (March 2006): Quantitative		
	suspension test for the evaluation of basic fungicidal or		

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Independent Laboratory: Date:

Conclusions:

basic yeasticidal activity of chemical disinfectants and antiseptics (phase 1). HygCen Centrum für Hygiene und medizinische Produktsicherhelt GmbH, Schwerin, Germany July 31, 2007

According to DIN EN 1275 (March 2006) the test product possesses a fungicidal activity at 20° C in 60 seconds for the referenced strain *Aspergillus niger* ATCC 16404 when diluted at 90% (v/v) in distilled water.



European Standard DIN EN 14348 (April 2005) Test

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Objective: Description of Test:

Independent Laboratory: Date:

Conclusions:

To determine mycobactericidal activity of test product. European Norm DIN EN 14348 (April 2005): Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants in the medical area including instrument disinfectants (phase2, step 1). HygCen Centrum für Hygiene und medizinische Produktsicherhelt GmbH, Schwerin, Germany May 31, 2007

According to DIN EN 14348 (April 2005), the test product possesses a mycobactericidal activity for the referenced test strains *Mycobacterium terrae* ATCC 15755 and *Mycobacterium avium* ATCC 15769 at 20°C after a contact time of 30 seconds when diluted at 80% (v/v) and after a contact time of 60 seconds when diluted at 75% (v/v) in distilled water.











European	Standard	ΕN	1500	Test
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Objective: To evaluate the antimicrobial efficacy of the test product when compared to the reference product, based on the European Standard for testing of a hygienic handrub, EN 1500, Chemical Disinfectants and Antiseptics- Hygienic Handrub-Test Method and Requirements. **Description of Test:** European Norm EN 1500, Chemical Disinfectants and Antiseptics- Hygienic Handrub-Test Method and **Requirements.** Independent BioScience Laboratories, Inc., Bozeman, Montana USA Laboratory: Date: June 19, 2007 **Conclusions:** Reductions in the marker organism, Escherichia coli (NCTC# 10538), produced by the test product were not significantly less than those produced by the reference product. Therefore, the test product conforms to the requirements of EN 1500, Chemical Disinfectants and Antiseptics- Hygienic Handrub-Test Method and Requirements. Darlans Jarians 080 50 77 | barjans.si 080 50 77 | barjans.si 080 50 77 barjans.si European Standard DIN EN 12791 (October 2005) Test

Objective:	To determine if the test product is suitable for surgical hand disinfection.
Description of Test:	European Norm DIN EN 12791 (October 2005): Test for the evaluation of surgical hand disinfection (phase2, step 2).
Independent Laboratory:	HygCen Centrum für Hygiene und medizinische Produktsicherhelt GmbH, Schwerin, Germany
Date:	May 24, 2007
Conclusions:	According to DIN EN 12791 (October 2005), the test product is suitable for surgical hand disinfection in the following application: Rub 3mL-portions of product onto the hands and keep them wet for 60 seconds.











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Virucidal Suspension Efficacy Test SARS associated coronavirus

Objective:	The study is designed to measure virucidal effectiveness of a test agent. It determines the potential of the test agent to kill SARS (Severe Acute Respiratory Syndrome) associated coronavirus (SARS CoV), CDC strain 200300592, in suspension.
Description of Test:	The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension."
Independent Laboratory:	MICROBIOTEST, Inc., Sterling, Virginia USA
Date:	May 31, 2007
Conclusions:	The test product inactivated SARS CoV by ≥ 5.87 logs when exposed to the test agent for 15 seconds and ≥ 5.87
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Virucidal Suspension Efficacy Test Rotavirus

Objective:	The study is designed to measure virucidal effectiveness of a test agent. It determines the potential of the test agent to kill Rotavirus, ATCC VR-899, in suspension.
Description of Test:	The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension."
Independent Laboratory:	MICROBIOTEST, Inc., Sterling, Virginia USA
Date:	June 5, 2007
Conclusions:	The test product inactivated Rotavirus by \ge 4.20 logs when exposed to the test agent for 15 seconds and \ge 6.64 logs when exposed to the test agent for 30 seconds at 34°C

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Virucidal Suspension Efficacy Test Respiratory Syncytial Virus

Objective:

The study is designed to measure virucidal effectiveness

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	of a test agent. It determines the potential of the test agent to kill Respiratory Syncytial Virus, ATCC VR-26, in suspension.
Description of Test:	The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension."
Independent Laboratory:	MICROBIOTEST, Inc., Sterling, Virginia USA
Date:	May 31, 2007
Conclusions:	The test product inactivated Respiratory Syncytial Virus by ≥ 6.17 logs when exposed to the test agent for 15 seconds at 34°C and ≥ 6.17 logs when exposed to the test agent for 30 seconds at 34°C.
Viru	ucidal Suspension Efficacy Test Vaccinia Virus
Objective:	The study is designed to measure virucidal effectiveness of a test agent. It determines the potential of the test agent to kill Vaccinia Virus. ATCC VR-1536, in
Description of Test:	suspension. The test follows the principle outlined in the American 77 barjans si Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension."
Independent Laboratory:	MICROBIOTEST, Inc., Sterling, Virginia USA
Date:	June 7, 2007
Conclusions:	The test product inactivated Vaccinia Virus by ≥ 3.13 logs when exposed to the test agent for 15 seconds and ≥ 3.13 logs when exposed to the test agent for 30 seconds at 34°C.
Virucida	I Suspension Efficacy Test Human Influenza A Virus
Objective:	The study is designed to measure virucidal effectiveness of a test agent. It determines the potential of the test agent to kill Human Influenza A/ Hong Kong/8/68, SPAFAS, in suspension.
Description of Test:	The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated
Document #: 9900-501	









E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension." **MICROBIOTEST, Inc., Sterling, Virginia USA** Independent Laboratory: Date: June 15, 2007 **Conclusions:** The test product inactivated Human Influenza A virus by ≥ 5.92 logs when exposed to the test agent for 15 seconds and \geq 5.92 logs when exposed to the test agent for 30 seconds at 34°C. Virucidal Suspension Efficacy Test Human Influenza B Virus **Objective:** The study is designed to measure virucidal effectiveness of a test agent. It determines the potential of the test agent to kill Human Influenza B/Lee/40, SPAFAS, in suspension. The test follows the principle outlined in the American **Description of Test:** Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension." Independent MICROBIOTEST, Inc., Sterling, Virginia USA Jana Laboratory: rians.si 080 50 77 barjans.si 080 50 77 barjans.si June 15, 2007 Date: Conclusions: The test product inactivated Human Influenza B virus by ≥ 6.67 logs when exposed to the test agent for 15 seconds and \geq 6.67 logs when exposed to the test agent for 30 seconds at 34°C.

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Virucidal Suspension Efficacy Test Bovine Viral Diarrhea Virus (Surrogate for Hepatitis C Virus)

Objective:

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The study is designed to measure virucidal effectiveness







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of a test agent. It determines the potential of the test agent to kill Bovine viral diarrhea virus, American BioResearch Laboratories, in suspension.

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Description of Test:

Independent Laboratory: Date: Conclusions: The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension." MICROBIOTEST, Inc., Sterling, Virginia USA

June 15, 2007

The test product inactivated Bovine viral diarrhea virus by ≥ 3.67 logs when exposed to the test agent for 15 seconds and ≥ 3.67 logs when exposed to the test agent for 30 seconds at 34°C.

The study is designed to measure virucidal effectiveness of a test agent. It determines the potential of the test agent to kill Hepatitis A virus, ATCC VR 1402, in

Virucidal Suspension Efficacy Test Hepatitis A Virus

Objective:

Description of Test:

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Conclusions:

Laboratory:

Date:

suspension. The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension." MICROBIOTEST, Inc., Sterling, Virginia USA

June 28, 2007

The test product inactivated Hepatitis A virus by ≥ 2.50 logs when exposed to the test agent for 15 seconds and \ge 3.00 logs when exposed to the test agent for 30 seconds at 34°C.

Virucidal Suspension Efficacy Test Simian Virus 40

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Objective:	The study is designed to measure virucidal effectiveness of a test agent. It determines the potential of the test agent to kill Simian virus 40 (strain Pa-57), ATCC VR-239, in suspension.		
Description of Test:	The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension."		
Independent Laboratory:	MICROBIOTEST, Inc., Sterling, Virginia USA		
Date:	July 27, 2007		
Conclusions:	The test product inactivated Simian virus 40 by \ge 3.43 logs when exposed to the test agent for 15 seconds and \ge 3.43 logs when exposed to the test agent for 30 seconds at 35°C.		
Virucidal Suspension Efficacy Test Duck Hepatitis B Virus (Surrogate for Human Hepatitis B virus)			
Objective: Darjans 080 50 77 barjans.si	The study is designed to measure virucidal effectiveness of a test agent. It determines the potential of the test agent to kill Duck Hepatitis B virus (DHBV), HepadnaVirus Testing, in suspension.		
Description of Test:	The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents against Viruses in Suspension."		
Independent Laboratory:	MICROBIOTEST, Inc., Sterling, Virginia USA		
Date:	September 27, 2007		
Conclusions:	The test product inactivated Duck Hepatitis B virus by \geq 1.67 logs when exposed to the test agent for 15 seconds and \geq 1.67 logs when exposed to the test agent for 30 seconds at 33°C.		











In-Vitro Virucidal Efficacy

Virucidal Suspension Efficacy Test Avian Influenza A, H5N1 Strain

Objective:	To determine the virucidal efficacy of the product against Avian Influenza A NIBRG-14 [H5N1] virus.
Description of Test:	The product was exposed to Avian Influenza A NIBRG-14 [H5N1] for period of 15 seconds followed by MDCK cell infection and incubation to examine the virucidal efficacy of the product against Avian Influenza A NIBRG-14 [H5N1]. Cytotoxicity was determined to establish the detection limit of the assay and the Hemagglutination Assay (HA) was used to determine the presence of virus.
Independent Laboratory:	Retroscreen Virology, London, UK
Date:	September 11, 2007
Conclusions:	The product at test concentrations 90% (v/v) and 72% (v/v) completely inactivated Avian Influenza A NIBRG-14 [H5N1], reducing the viral titer by ≥99.982% in 15
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Virucid	al Suspension Efficacy Test Murine Norovirus
Objective:	This study is designated to measure virucidal effectiveness of a test agent. It determines the potential of the test agent to kill Murine Norovirus 1 (MNV-1).
Description of Test:	The test follows the principle outlined in the American Society for Test Materials (ASTM) test method designated E 1052-96 "Standard Test Method for Efficacy of Antimicrobial Agents Against Viruses in Suspensions"
Independent Laboratory: Date:	Dr. Lee Ann Jaykus, Department of Food Science, North Carolina State University, Raleigh, North Carolina USA December 21, 2007

Results:

Product	Murine Norovirus Log ₁₀ Reduction	
	30 seconds	60 seconds
PURELL® Hand Sanitising Gel VF481™	≥3.56	≥3.56

Conclusions:

PURELL Hand Sanitising Gel VF481 completely









	inactivated Murine Norovirus 1 (<u>></u> 3.56 logs) after exposure times of 30 and 60 seconds.
Virucida	I Fingerpad Efficacy Test Human Norovirus
Objective:	To determine the virucidal efficacy of the product against the Norwalk strain of human Norovirus when tested on the Fingerpads of adult volunteers.
Description of Test:	The test follows a modified American Society of Testing and Materials E 1838-02 method "Standard Test Method for Determining the Virus-Eliminating Effectiveness of Liquid Hygienic Handwash and Handrub Agents Using the Fingerpads of Adult Volunteers."
Independent Laboratory: Date:	Dr. Christine Moe, Ph.D., Rollins School of Public Health, Atlanta, Georgia, USA July 16, 2008

Results:

Product	Norwalk Virus Log ₁₀ Reduction
haniana	15 seconds
PURELL® Hand Saniti	sing Gel VF481 TM 3.67 2.98
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Conclusions:	PURELL Hand Sanitising Gel VF481 is an effective hand
	sanitiser against Norwalk virus with an observed mean
	log reduction of 2.98 after a 30 sec contact time and 3.7
	after a 15 sec contact time.
	Efficacy Data – In Vitro
	Timed – Exposure Kill Evaluation
Objective:	Evaluate the antimicrobial effectiveness of the product in
	vitro.
Description of Test:	Fifteen (15) and thirty (30) second time-kill evaluations were performed utilizing fifty six (56) challenge bacterial strains. The challenge inoculum was introduced to the test product at time zero; a portion of the sample was removed and placed in neutralizing media at the appropriate time (15 and/ or 30 seconds). Standard plate counting
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techniques were used to enumerate viable challenge microorganisms.

Independent Laboratory: Date:

BioScience Laboratories, Inc., Bozeman, Montana USA May 17, 2007; September 26, 2007; February 29, 2008

Results:

Challenge Microbe	ATCC No. or NRS No.	Exposure (seconds)	Percent Reduction
Acinetobacter baumannii	19606	15	≥ 99.9999%
Aspergillus flavus	9643	30	≥99.8914%
Bacillus megaterium (vegetative cells)	14581	15	≥99.9945%
Bacteroides fragilis	29762	15	≥99.9991%
Burkholderia cepacia	25416	15	≥99.9998%
Campylobacter jejuni	29428	15	≥99.9999%
Candida tropicalis	13803	30	≥99.9999%
Citrobacter freundii	8090	15	≥99.9999%
Clostridium difficile (vegetative cells)	9689	15	≥ <mark>99.9994</mark> %
Clostridium perfringens	arj ¹³¹²⁴ 5	15	≥99.9710%
Corynebacterium diphtheriae	^{50 77} 11913 ⁵¹	15	≥ 99.9986%
Enterobacter aerogenes	13048	15	≥99.9999%
Enterococcus faecalis	29212	15	≥99.9998%
Enterococcus faecium (MDR, VRE)	51559	15	≥99.9999%
Enterococcus faecium (MDR, VRE)	51559	15	≥ 99.9997%
Escherichia coli	11229	15	≥99.9998%
Escherichia coli	25922	15	≥99.9998%
Escherichia coli (serotype O157:H7)	43888	15	≥ 99.9998%
Escherichia coli (serotype O157:H7)	35150	15	≥ 99.9997%
Epidermophyton floccosum	52063	15	≥ 99.8571%
Haemophilus influenzae, MDR	33930	15	≥99.9999%
Klebsiella pneumoniae ozaenae	11296	15	≥ 99.9998%
Klebsiella pneumoniae pneumoniae	13883	15	≥99.9999%
Lactobacillus plantarum	14917	15	≥99.9999%
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Listeria monocytogenes	7644	15	≥99.9999%
Listeria monocytogenes	15313	15	≥99.9999%
Micrococcus luteus	7468	30	≥99.9998%
Penicillium citrinum	9849	30	≥99.9925%
Proteus hauseri	13315	15	≥99.9999%
Proteus mirabilis	7002	15	≥99.9999%
Pseudomonas aeruginosa	27853	15	≥99.9998%
Salmonella enterica	10708	15	≥99.9999%
enterica			
serovar Choleraesuis			
Salmonella enterica	10708	15	≥99.9999%
enterica			
serovar Choleraesuis			
Salmonella enterica	13076	15	≥99.9999%
enterica			
serovar Enteritidis			
Salmonella enterica	14028	15	≥99.9999%
enterica			
serovar Typhimurium			
Serratia marcescens	14756	15	≥99.9999%
Shigella dysenteriae	13313	15	≥99.9996%
Od Shigella sonnei	11060	15	≥ 99.9999%
080 50 77 Staphylococcus aureus	50 77 29213 si	15	≥99.9999%arjans.s
aureus			
Staphylococcus aureus	6538	15	≥99.9999%
aureus			
Staphylococcus aureus	33591	15	≥99.9999%
aureus, (MRSA)			
Staphylococcus aureus,	BSLI #	15	≥99.9999%
MRSA	051/0/MRSa1		
Healthcare-Acquired Staphylococcus	NRS382	15	≥99.9999%
aureus MRSA Strain USA100	NECOS	15	
Healthcare-Acquired Staphylococcus	NRS383	15	≥99.9999%
aureus MRSA Strain USA200	NDOOOL	4.5	
Community-Acquired Staphylococcus	NKS384	15	299.9999%
aureus MRSA Strain USA300		4.5	
Community-Acquired Staphylococcus	NRS123	15	≥99.9999%
aureus MRSA Strain USA400	NDOOOF	4.5	
Healthcare-Acquired Staphylococcus	NRS385	15	≥99.9999%
aureus MRSA Strain USA500			
Community-Acquired Staphylococcus	NRS483	15	≥99.9999%
aureus MRSA [®] Strain USA1000			











Community-Acquired Staphylococcus	NRS484	15	≥99.9999%
aureus MRSA' Strain USA1100			
Staphylococcus epidermidis	12228	15	≥99.9998%
Staphylococcus haemolyticus	43253	15	≥99.9999%
Staphylococcus hominis	27845	15	≥99.9995%
hominis			
Staphylococcus saprophyticus	49453	15	≥99.9999%
Streptococcus pneumoniae	33400	15	≥99.9986%
Streptococcus pyogenes	19615	15	≥99.9999%
Trichophyton mentagrophytes	9533	15	≥99.9 <mark>966%</mark>
Vibrio cholerae	11558	15	≥99.9 <mark>998%</mark>

• = Clinical Isolate

MRSA = Methicillian-Resistant Staphylococcus aureus

Glove Compatibility

Test Method	ASTM D5151-99 Glove samples were immersed in product for a period of 2 hours and then examined for leaks. The control samples were not exposed to product.
Testing Lab	Smithers Scientific Services, Inc, Akron, Ohio USA
Date	May 14, 2007
Purpose of Study	Determine the effect of product on Medical Exam Gloves including powder-free/ latex free nitrile, powder-free latex and powder-free PVC medical exam gloves.
Sample Size:	100 control gloves and 100 gloves were tested with the test product on each of three glove types. Tested were 100 each of powder-free/ latex free nitrile, powder-free latex and powder-free PVC medical exam gloves.
Results:	In the test set, there was one leak detected on 2 powder free PVC gloves. There were no leaks in any of the other test or control gloves.
Conclusion:	The test product does not impact the integrity of powder-free/ latex free nitrile, powder-free latex and powder-free PVC latex medical exam gloves.





