



Kimberly-Clark®
Professional

HEALTHCARE PERSONNEL HANDWASH

Technical Bulletin
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KIMBERLY-CLARK® Professional Healthcare Personnel Handwash With 1.0% Triclosan

Dermatologist tested
Meets protocol for Healthcare Personnel Handwash

Physical Characteristics

Active Ingredient: 1.0% Triclosan
Color: Clear/Light Straw
Fragrance: Cucumber
pH: 5.75
Viscosity: 3000cPs

Skin Irritancy Study: 48 Hour, 50 Person Patch Test

Independent Laboratory: Consumer Product Testing Company, Fairfield, NJ

Test Method: 48 hour, 50 person patch test

Test Results: No indication of a potential for dermal reactions.

CONCLUSIONS: KIMBERLY-CLARK® Professional Healthcare Personnel Handwash is safe for use on the skin.

Antimicrobial Efficacy In Vivo Healthcare Personnel Handwash Test

Test Objective:

The objective of this study is to determine the ability of the product to reduce transient microbial flora on the skin.

Test Method: Glove Juice Technique using *Serratia marcescens*. Testing methods were based on the FDA Tentative Final Monograph for Effectiveness Testing of an Antiseptic Handwash or Healthcare Personnel Handwash Products.

Date Test Run: May 2002

Independent Laboratory: Bioscience Laboratories Inc., Bozeman, Montana

Results:

Log₁₀ difference from baseline:
Wash 1 – 2.69, Wash 3 – 2.98, Wash 7 – 3.05, Wash 10 – 3.05

CONCLUSION:

KIMBERLY-CLARK® Professional Healthcare Personnel Handwash demonstrates effective antimicrobial activity on the skin. Product meets the protocol for a Healthcare Personnel Handwash.

Antimicrobial Efficacy In Vitro Time Kill Study

Test Objective:

The purpose of this test is to determine the germ killing efficacy of KIMBERLY-CLARK® Professional Healthcare Personnel Handwash.

Test Method: Time Kill Study

Test Date: July 2003

Organism	ATCC No.	% Reduction 30 Sec
Acinetobacter lwoffii	15309	99.99
Aspergillus niger	16404	14.3
Bacillus subtilis	19659	99.81
Candida albicans	10231	99.97
E. coli	11229	99.99
E. coli	25922	99.99
Enterobacter aerogenes	13048	99.999
Enterococcus faecalis	29212	99.99
Enterococcus faecalis (MDR)	51299	99.99
Enterococcus faecium	19434	99.999
Haemophilus influenza	19418	99.99
Klebsiella pneumoniae	10031	99.99
Micrococcus luteus	7468	99.99
Proteus mirabilis	7002	99.999
Pseudomonas aeruginosa	15442	99.99
Pseudomonas aeruginosa	27853	99.99
Serratia marcescens	14756	99.98
Staphylococcus aureus	29213	99.99
Staphylococcus aureus	33592	99.999
Staphylococcus aureus	6538	99.99
Staphylococcus epidermidis	12228	99.99
Staphylococcus haemolyticus	29970	99.99
Staphylococcus hominis	27844	99.99
Staphylococcus saprophyticus	15305	99.99
Streptococcus pneumoniae	6303	99.99
Streptococcus pyogenes	19615	99.99
E. coli O157:H7	43895	99.99
Staphylococcus aureus MRSA	33592	99.99
VRE (Vancomycin resistant enterococcus)		99.99

Antimicrobial Efficacy In Vitro Minimum Inhibitory Concentration (MICs)

Test Objective:

The purpose of this test is to determine the minimum concentration of the product which will inhibit growth of bacterial or fungal organisms in a laboratory study.

Test Date: May 2002

Independent Laboratory: Celsis Laboratory Group, Edison, NJ

Organism	ATCC No.	MIC (ppm)
Acinetobacter lwoffii	15309	195
Aspergillus niger	16404	195
Bacillus subtilis	19659	50000
Bacteroids fragilis	23745	195
Candida albicans	10231	195
E. coli	43895	195
E. coli	11229	195
E. coli	25922	195
Enterobacter aerogenes	13048	25000
Enterococcus faecalis	29212	391
Enterococcus faecalis (MDR)	51299	391
Enterococcus faecium	19434	195
Haemophilus influenza	19418	195
Klebsiella pneumoniae	10031	195
Micrococcus luteus	7468	100000
Proteus mirabilis	7002	195
Pseudomonas aeruginosa	15442	100000
Pseudomonas aeruginosa	27853	100000
Serratia marcescens	14756	50000
Staphylococcus aureus	29213	781
Staphylococcus aureus	33592	195
Staphylococcus aureus	6538	195
Staphylococcus aureus MRSA	33592	195
Staphylococcus epidermidis	12228	195
Staphylococcus haemolyticus	29970	391
Staphylococcus hominis	27844	195
Staphylococcus saprophyticus	15305	195
Streptococcus pneumoniae	6303	195
Streptococcus pyogenes	19615	50000

Glove Compatibility Study

Test Objective:

The purpose of this test was to determine whether KIMBERLY-CLARK® Healthcare Personnel Handwash has the potential to degrade natural rubber latex or synthetic gloves.

Test Description:

Subjects had one hand washed with KIMBERLY-CLARK® Healthcare Personnel Handwash, then wore gloves on both hands for one hour.

Glove Testing:

After one hour, the gloves were removed and examined for evidence of damage or compromised integrity.

Test Date: June 2002

CONCLUSIONS:

KIMBERLY-CLARK® Healthcare Personnel Handwash is natural rubber latex and synthetic glove compatible

Ingredient List

Active Ingredient:

1.0% Triclosan

Inactive Ingredients:

Water

Hexylene Glycol

Sodium Cumenesulfonate

Sodium Lauroamphoacetate

Sodium Lactate

Lactic Acid

Hydroxyethylcellulose

Disodium Soyamphodiacetate

Oleamidopropyl Betaine

Potassium C12-13 Alkyl Phosphate

Fragrance (Parfum)

Guar Hydroxypropyltrimonium Chloride

Aloe Babadensis leaf Juice

Methylchloroisothiazolinone, methylisothiazolinone

Tetrasodium EDTA

Sodium Hydroxide

Give Us A Call

For more information on KIMBERLY-CLARK® Professional products, contact your KIMBERLY-CLARK Professional Sales Representative, or call us at **1-888-346-GOKC (4652)**. Visit us on-line at www.kcprofessional.com.



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