

NewGenn Foam Hand Wash



Intuitive Infection Control

NOTE: The current interpretation of the European Medicines Directive dictates that within Europe only people with the appropriate knowledge of infectious diseases should read this document. By definition “appropriate knowledge” is limited to clinical degrees in Medicine, Dentistry and Veterinary Science. NewGenn has made representations to the effect that a qualified practicing Infection Control Nurse will have more appropriate and current knowledge than a surgeon who has had little reason to keep up to date with current infection control strategies. This statement is therefore presented for completeness and recognition of the law.

Presented by:

**NewGenn**

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Section 1

Summary

NewGenn Foam Hand Wash was originally created to provide a mild hand wash for hospital ward use, one that provided rapid broad-spectrum activity against Noro Virus, bacteria, fungi and to a limited extent, bacterial and fungal spores.

The main reason for offering a new hand wash when many liquid soaps already exist is that care-workers are expected to know when they should use a cleansing hand wash or an antimicrobial hand wash depending on the presumption that they knew when transient pathogens are present on their hands. The choice is clear when there is visible soiling but hand contamination with pathogens commonly exists in the absence of visible soiling. It was therefore highly unlikely that care-workers actually knew when pathogens were present, making it extremely likely that they would use a cleansing wash when an antimicrobial wash was the more appropriate choice. NewGenn Foam Hand Wash is seen by most users as a cleansing wash and is used as such, but it actually has the desired antimicrobial capacity which overcomes the dilemma presented above.

Another reason for introducing a new hand wash into the clinical setting is to ensure chemical compatibility between different hand sanitizing products. Care-staff are usually aware of the need to wash their hands with an antimicrobial wash when their hands are visibly soiled, but if they have previously used a cleansing hand wash on that day the chance exists for the cleansing wash to inactivate the antimicrobial wash. This situation is especially relevant when anionic cleansing washes coexist on the ward with cationic washes like Hibiscrub. Therefore NewGenn Foam Hand Wash is offered for use in combination with NewGenn Foam Deep Wash as the two products are completely compatible.

A third reason for the introduction of this product relates to compatibility with hands. Other single-brand multi-product hand product systems exist and many include a hand cream to overcome the damage on hands. The existence of such hand creams is tantamount to a clear acknowledgement that one or more of the other products in that system causes the hand damage. In the current era of poor hand hygiene compliance any factor that damages hands must be seen as part of the problem, even if that factor is included as an attempt to overcome the damage. Current health and safety law dictates that employers should not provide any product into the working environment that causes skin damage, so the need for a hand cream effectively traps the employer into acknowledging that a damaging product has also been provided. NewGenn Foam Hand Wash is often credited with "curing my skin complaint", an anecdotal comment that serves well to emphasize the high degree of skin compatibility.

Health-care associated infections are also community based, making it relevant to introduce a highly effective broad spectrum antimicrobial hand wash for use in nursing homes, nurseries, households and many other community areas.

The intention in the design was to:

1. Induce willing use by having the product leave a pleasant cosmetic feel to washed hands
2. Provide a hand hygiene system that did not require a hand cream as needing a hand cream is tantamount to admitting the products are the cause of occupational skin problems

3. Be chemically compatible with NewGenn Foam Deep Wash to overcome the common cross-inactivation often seen between cleansing and antimicrobial hand washes
4. Provide a mild hand wash with strong and diverse antimicrobial activity against:
 - Noro Virus (Norwalk Virus, Winter Vomiting Disease Virus, Cruise ship virus)
 - Bacteria including:
 - *Staphylococcus aureus*
 - *Pseudomonas aeruginosa*
 - *E. coli*
 - *Enterococcus hirae*
5. Provide a safe product which could be used by children and one that would willingly be used by children with skin and respiratory ailments
6. Make available a mild and safe hand wash that rapidly killed *Pseudomonas aeruginosa* in order to help prevent infections in cystic fibrosis sufferers and burns victims
7. Provide a product that could safely be used in the home, in community care, in transport settings like cruise ships as well as in hospitals
8. Provide a milder alternative to existing chlorhexidine based hand washes
9. Provide a hand wash that was free of alcohol and ingredients of animal origin to help those with personal and/or religious preferences against such chemicals
10. Be one part of an extensive range of chemically compatible infection control products.

The material presented in this document is intended to show that this new and innovative product has a clear potential to break microbial cycles and reduce both hospital acquired infections and the broader health-care association infections.

Section 2

Composition of the product

Before presenting the exact names of the active ingredients it is important to outline the logic on which the ingredient selection was made.

- Willing user compliance is desirable so ingredients derived from plant oils were used
- Ingredients with a high degree of detergent action provided the cleaning power needed to expose transient microbes on hands making it easier to kill them with a very mild product
- Protection for resident flora was achieved by using long-chain plant oil ingredients that layered over that flora
- Action against transient flora was enhanced with ingredients that made skin smooth making it more difficult for transient pathogens to adhere
- The likelihood of bacterial resistance was negated by selecting ingredients which attack the negative charge of the relevant bacteria so before true resistance can occur the bacteria would need to undergo a very extensive change in their most fundamental biochemistry
- Very rapid virucidal action against Noro Virus was achieved by including ingredients that inactivated the ionic forces between the viral coat proteins allowing the detergent moieties to enter the viral structure and destroy the nucleic acid.

The liquid in NewGenn Personal Foam is a solution in water of NewGenn High Level Disinfectant concentrate with added foam stabilizing agent and colour. The list of ingredients and their respective inclusion rates are:

Ingredient	CAS Number	NewGenn Personal Care Foam %
Coco alkyl benzene ammonium chloride	121-54-0	<0.2
Didecyldimethyl ammonium chloride	7173-51-5	<0.2
Coco amine oxide	70592-80-2	<0.7
Coco alkyl betain	61789-40-0	<2.0
Blue dye	3844-45-9	<0.005
Acidity modifier 1	Secret	<0.15
Acidity modifier 2	Secret	<0.06

The precise identities of the two acidity modifiers are commercially secret but their very low inclusion rates ensure they are safe for users and the environment. Further comment on safety is provided in section 4.

The Material Safety Data Sheet for NewGenn Foam Hand Wash is shown on the following pages.

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

MANUFACTURER / SUPPLIER:

NEWGENN RESEARCH LIMITED

Unit 5 Shepherd's Grove Industrial Estate West, Stanton, Bury St Edmunds, Suffolk, England.
IP31 2AR

Tel: 01359 253840 Fax: 01359 251836 www.newgenn.com

PRODUCT NAME:

NEWGENN Foam Hand Wash

REFERENCE:

SAF175 Issue date: 10 February 06 Issue Number: 5

PHYSICAL FORM: Liquid in the container. Foam when dispensed.

PRODUCT TYPE: Hand Sanitiser.

CONTAINERS: Bottles - Plastic.

2. COMPOSITION / INFORMATION ON INGREDIENTS

NAME AND % ACTIVE

Water to 100%

Didecyldimethylammoniumchloride <0.5%

Alkyldimethylbenzylammoniumchloride <0.5%

Cocopropylamine Betain <0.5%

Poly Quat 7 <0.5%

Alkyl amine oxide <1.0%

pH stabilisers <0.5%

Colour <0.5%

3. HAZARDS IDENTIFICATION

Possibly harmful if swallowed in very large quantities.

4. FIRST-AID MEASURES

EYE: Wash immediately with copious quantities of water. Seek medical advice.

SKIN: Not a known skin irritant.

INGESTION: Remove material from mouth. Drink 1 or 2 glasses of water. Obtain medical attention without delay.

INHALATION: Not appropriate.

EQUIPMENT AT WORK: Eye washing facilities.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY: Not flammable

EXPLOSIVE HAZARDS: None known

SPECIAL PROTECTIVE CLOTHING: Breathing apparatus should be worn when tackling fires involving this product, mainly related to the plastic bottle combustion products.

SUITABLE EXTINGUISHERS: Any can be used.

EXTINGUISHERS WHICH CAN NOT BE USED: None.

HAZARDOUS COMBUSTION PRODUCTS: Toxic and irritant fumes may be given off when this product is heated to combustion.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION: None essential but goggles will protect against contact with eyes.

SPILLAGE CLEAN-UP: Observe local legislation. Absorb large spillages with a mop or damp cloth. Wash residues and small quantities away to drains with water.

7. HANDLING AND STORAGE

HANDLING: No special precautions necessary if used correctly. Avoid eye contact and ingestion. Wash hands at the end of the work.

STORAGE: Store in original, closed containers in dry conditions. Avoid temperature extremes.

SHELF LIFE: Two years from date of manufacture.

OPEN LIFE: Not to exceed shelf life.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

None necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light-blue liquid
ODOUR: Odourless
SOLUBILITY IN WATER: Fully miscible
VISCOSITY AT 20°C: As water
pH: 6 – 8
BOILING POINT °C: 100
FLASH POINT: Not Applicable
DANGER OF EXPLOSION: Product is not explosive
DENSITY AT 20°C: 1.0 g/ml

10. STABILITY AND REACTIVITY

Stable if stored and used according to instructions. No dangerous reactions or degradation products known.

11. TOXICOLOGICAL INFORMATION

EYE: Probably slight irritation in 24 hours following exposure.
SKIN AND MUCOUS MEMBRANES: Not a known irritant.
INGESTION: Possibly harmful in very large volumes.
SENSITISATION: No sensitising effect known.
INHALATION: Not applicable.
OTHER TOXICOLOGICAL INFORMATION: Oral LD₅₀ rat: Expected >2000 mg/kg.

12. ECOLOGICAL INFORMATION

May be hazardous to water in very large volumes.

13. DISPOSAL CONSIDERATIONS

Disposal of product and packaging must be according to local regulations.

14. TRANSPORT INFORMATION

Not classified as hazardous for transportation.

15. REGULATORY INFORMATION

In accordance with EC Directives / Ordinance on Hazardous Materials.
Code Letter and hazard designation of product: Product is not hazardous at the dilution provided.
Hazard determining components of labelling: None of the ingredients are hazardous at this low concentration.
Risk phrases: None.
Safety phrases:
26: In case of contact with eyes, rinse immediately with plenty of water and seek immediate medical advice.
45: In case of accident, adverse reaction or if you feel unwell, stop using the product and seek medical advice immediately.
Water hazard class: May be hazardous for water in very large amounts.

16. OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship. Use as directed.

End of Safety Data Sheet.

Section 3

In Vitro activity

NewGenn Foam Hand Wash is a solution of NewGenn High Level Disinfectant in water so the virucidal, bactericidal and fungicidal results for the disinfectant solution are deemed to be valid for this product.

The Calici Virus evidence from Akzo Nobel on the following page relates to Feline Calici Virus. The latter is well established as the most appropriate surrogate virus for Noro Virus as the latter has yet to be grown in tissue culture (*Doultree et al. Journal of Hospital Infection (1999) 41: 51-57*). The code name of the product tested by Akzo Nobel relates to a 0.5% dilution of NewGenn High Level Disinfectant which is one tenth the concentration present in NewGenn Foam Hand Wash.

In all respects other than a different dye NewGenn Foam Hand Wash is the same formulation as the one tested by the Hospital Infection Research Laboratory under the name NewGenn Foam Hand Scrub. Their EN1276 report that follows demonstrates rapid bactericidal activity in suspension.

Other results presented are based on 1% NewGenn High Level Disinfectant, one fifth the concentration of biocidal component in NewGenn Foam Hand Wash, which are deemed to be relevant for this product on the following basis. The Hospital Infection Research Laboratory has tested under the EN 1276 protocol both a 0.5% solution and a 5% solution of NewGenn High Level Disinfectant and the results are essentially the same. Since that tenfold span of concentration is immaterial to effectiveness a 1% solution will be representative. The two HIRL studies were for TecMark Hand Rub (0.5%) and NewGenn Foam Hand Scrub (5.0%). The latter results are presented in this document and the former in the equivalent document on NewGenn Foam Hand Rub. The potentially confusing change in names reflects an evolving commercial history but the formulations have been consistently maintained so the results remain valid despite the name changes.



**Telefax transmittal
cover sheet**

Date
1 October 2002
Number of Pages
(incl. cover sheet)
1

To
Harley Farmer/Andrew Crowe

Company/Department
NewGenn

Fax number
01284 760425

From
Stuart Chalmers

Company/Department
Intervet UK - The Elms

Fax number
01480 466469
Phone number
01480 464242

Dear Harley

Herewith the results (\log_{10}) of the test substances SAIFER 'C' used to inactivate feline calicivirus.

<u>Inactivation time</u> (min)	<u>SAIFER 'C'</u>	<u>Control</u>
	<u>FCV</u>	<u>FCV</u>
0	≤ 2.5	3.6
5	≤ 2.5	
10	≤ 2.5	
30	≤ 2.5	
60	≤ 2.5	3.5

Toxic effect on cells at 10^{-1} dilution meant that no result could be given for a 1:10 dilution of virus. However, no virus was observed at the 1:100 dilution ($3.3 \log_{10}$) or above.

Kind regards

Dr W S K Chalmers
R&D Manager
01/10/02

Intervet UK Ltd.
The Elms
The Thicket
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EFFICACY TESTS (EN 1276)
NEWGENN HYGIENE HAND SCRUB

Note: The same product as NewGenn Foam Hand Wash in all but the colour.

NEWGENN RESEARCH LTD

HOSPITAL INFECTION RESEARCH LABORATORY
CITY HOSPITAL NHS TRUST
DUDLEY ROAD
BIRMINGHAM B18 7QH

OCTOBER 2002

MANUFACTURER

Newgenn Research Ltd
St John's Innovation Centre
Cowley Road
Cambridge CB4 0WS

TEST PRODUCTS

NewGenn Scrub

Batch number L101002 A

STORAGE CONDITIONS

Room temperature

TEST ORGANISMS

Staphylococcus aureus

NCTC 10788

Pseudomonas aeruginosa

NCTC 6749

Escherichia coli

NCTC 10418

Enterococcus hirae

NCTC 12367

TEST METHOD AND VALIDATION EN 1276 Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (Phase 2, step1). Tests for disinfectants for medical establishments not yet ratified.

Product test concentration	Undiluted (i.e. 80% in the test)
Appearance product dilution	Clear solution
Contact times	1, 2 and 5 minutes
Test temperature	20°C
Interfering substances	Bovine albumin 0.03% (clean conditions) 0.3% (dirty conditions)
Inhibition method	Dilution/neutralization Lecithin 3g/l, Tween 80 30g/l, Sodium thiosulphate 5g/l, L-histidine 1g/l, Saponin 30g/l

Tests were performed to establish the suitability of this neutralizer in neutralizing the activity of the disinfectant without being inhibitory to the test organisms (method described in EN 1276).

SUMMARY OF TEST METHOD

The test method is described in EN 1276 Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (Phase 2, step1). Tests for disinfectants for medical establishments not yet ratified. Copies of EN 1276 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1ml of the test bacteria with 1ml of soil (0.3 or 3% albumin and then adding 8 ml of disinfectant. After the required contact time, 1 ml is removed and added to 9 ml of recovery/neutralizer fluid which is then plated to detect surviving test bacteria.

RESULTS

**BACTERICIDAL ACTIVITY OF NEWGENN HAND SCRUB
USING PHASE 2 STEP 1 SUSPENSION TEST EN 1276**

Log₁₀ counts/reductions achieved in 1 minute

Mean of 2 tests

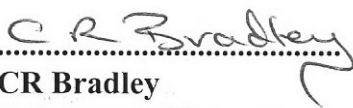
Log₁₀ reductions achieved				
Test organism	Contact time	Log₁₀ initial Count	Clean conditions 0.03% albumin	Dirty conditions 0.3% albumin
Pseudomonas aeruginosa	1 min	7.27	4.67	4.71
	2 min		>6.27	>6.27
	3 min		>6.27 PASS	>6.27 PASS
Staphylococcus aureus	1 min	7.46	4.78	4.82
	2 min		>6.46	>6.46
	3 min		>6.46 PASS	>6.46 PASS
Escherichia coli	1 min	7.89	>6.89	>6.89
	2 min		>6.89	>6.89
	3 min		>6.89 PASS	>6.89 PASS
Enterococcus Hirae	1 min	7.72	>6.72	>6.72
	2 min		>6.72	>6.72
	3 min		>6.72 PASS	>6.72 PASS


To satisfy the requirements of this test a >5 log₁₀ reduction in test bacteria is required within 5 minutes.

CONCLUSION

A 5 log₁₀ (99.999%) reduction was achieved with the NewGenn Scrub formulation with all test organisms i.e. *Ps. Aeruginosa*, *Staph. aureus* *Esch. Coli* and *Ent. Hirae*.

To satisfy the requirements of the test, at least a 5 log₁₀ reduction in specified test organisms is required within 5 minutes when the disinfectant is tested at its intended use dilution. Performance under light (clean) and moderate to heavy (dirty) soiling was assessed and so was efficacy at 1 minutes.


.....
CR Bradley
Laboratory Manager


.....
Dr A P Fraise
Director

EFFICACY TESTS (EN 1276)
NEWGENN HIGH LEVEL DISINFECTANT

NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES
MILL FARM
MILL LANE
TUNSTEAD
NORWICH
NR12 8HP

Manufacturer: NewGenn Research Limited,
5 Shepherds Grove Industrial Estate - West,
Stanton,
Bury St. Edmunds,
Suffolk IP31 2AR

Test Products: NewGenn High Level Disinfectant

Ingredients – Cocamido propylbenzene ammonium chloride,
Di-decyl dimethyl ammonium chloride, acidity
modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms Methicillin Resistant Staphylococcus aureus
ATCC 33591

Test Method and Validation EN1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1 % (i.e. 0.8% in the test)
Appearance of product dilution	Clear solution
Contact time	10 seconds, 1 minute.
Test Temperature	20C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3%, Sodium thiosulphate 0.5% Cystine 0.1 % Histidine 0.1 %

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in EN1276)

Summary of test method

The test method is described in EN1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional area (Phase 2, step 1). Copies of EN 1276 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1ml of the test bacterium with 1ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution which is then plated out to detect surviving organisms.

Bactericidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN1276

Dirty conditions (0.3% albumin)

(Test carried *out* in duplicate)

Test Organism	Contact time	Log 10 initial count (challenge) Mean	Log (10) reductions achieved Mean
Staphylococcus aureus (MRSA)	10 secs	7.26	3.35
	1 min	7.26	5.06

To satisfy the requirements of this test a > 5 log(10) reduction in test bacteria is required within 5 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN1276 complies with the criteria for acceptance after 1 minute.

(> 5 log (10) reduction in 5 minutes required)



K.M. Self, M.B.I.C.Sc.,M.R.S.H.
Proprietor

28th July 2004
K76744

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End

EFFICACY TESTS (EN 1276)
NEWGENN HIGH LEVEL DISINFECTANT
NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES
MILL FARM
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TUNSTEAD
NORWICH
NR12 8HP

Manufacturer: NewGenn Research Limited,
5 Shepherds Grove Industrial Estate - West,
Stanton,
Bury St. Edmunds,
Suffolk IP31 2AR

Test Products: NewGenn High Level Disinfectant

Ingredients - Cocamido propylbenzene ammonium
chloride, Di-decyl dimethyl ammonium chloride, acidity
modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms Staphylococcus epidermidis NCTC 11047
Salmonella enteritidis NCTC 4444
Salmonella typhimurium NCTC 5710
Klebsiella pneumoniae ATCC 4352
Enterococcus hirae ATCC 10541

Test Method and Validation EN1276 Chemical disinfectants and antiseptics -Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1 % (i.e. 0.8% in the test)
Appearance of product dilution	Clear solution
Contact time	1 minute.
Test Temperature	20C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3 %, Sodium thiosulphate 0.5% Cystine 0.1 % Histidine 0. 1 %

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in EN1276)

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The test method involves mixing 1 ml of the test bacterium with 1 ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution which is then plated out to detect surviving organisms.

Bactericidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN1276

Log (10) counts/reduction achieved in 1 minute

(Test carried out in duplicate)

Log (10) reductions achieved			
Test Organism	Contact time	Log 10 initial count (Challenge) Mean	Dirty conditions (0.3% albumin) Mean
Staphylococcus epidermidis	1 min	7.04	>6.04
Salmonella enteritidis	1 min	7.32	> 6.32
Salmonella typhimurium	1 min	7.58	> 6.58
Klebsiella pneumoniae	1 min	7.28	> 6.28
Enterococcus faecalis	1 min	7.08	> 6.08

To satisfy the requirements of this test a > 5 log(10) reduction in test bacteria is required within 5 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN1276 complies with the criteria for acceptance (> 5 log (10) reduction in 5 minutes) against Staphylococcus epidermidis, Salmonella enteritidis, Salmonella typhimurium, Klebsiella pneumoniae and Enterococcus hirae.



K.M. Self, M.B.I.C.Sc.,M.R.S.H.
Proprietor

2nd August 2004

5
End

EFFICACY TESTS (EN 1276)
NEWGENN HIGH LEVEL DISINFECTANT
NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES
MILL FARM
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Manufacturer: NewGenn Research Limited,
5 Shepherds Grove Industrial Estate - West,
Stanton,
Bury St. Edmunds,
Suffolk IP31 2AR

Test Products: NewGenn High Level Disinfectant

Ingredients - Cocamido propylbenzene ammonium chloride,
di-decyl dimethyl ammonium chloride,
acidity modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms
Escherichia coli 0157 NCTC 12900
Salmonella choleraesuis NCTC 10653
Listeria monocytogenes NCTC 11994
Proteus vulgaris NCIMB 4175

Test Method and Validation EN1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1 % (i.e. 0.8% in the test)
Appearance of product dilution	Clear solution
Contact time	1 minute.
Test Temperature	20 C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3 %, Sodium thiosulphate 0.5% Cystine 0.1 % Histidine O. 1 %

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in EN1276)

Summary of test method

The test method is described in EN1276 Chemical disinfectants and antiseptics -Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional area (phase 2, step 1). Copies of EN1276 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1ml of the test bacterium with 1ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution which is then plated out to detect surviving organisms.

Bactericidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN1276

Log (10) counts/reduction achieved in 1 minute

(Test carried out in duplicate)

Log (10) reductions achieved			
Test Organism	Contact time	Log10 initial count (challenge) Mean	Dirty conditions (0.3% albumin) Mean
Salmonella choleraesuis	1 min	7.49	> 6.49
Escherichia coli 0157	1 min	7.32	> 6.32
Listeria monocytogenes	1 min	7.25	> 6.25
Proteus vulgaris	1 min	7.38	> 6.38

To satisfy the requirements of this test a > 5 10g(10) reduction in test bacteria is required within 5 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN1276 complies with the criteria for acceptance ($> 5 \log (10)$ reduction in 5 minutes) against *Salmonella choleraesuis*, *Escherichia coli* 0157, *Listeria monocytogenes* and *Proteus vulgaris*.



K.M. Self, M.B.I.C.Sc.,M.R.S.H.
Proprietor

6th August 2004

5
End

EFFICACY TESTS (EN 1276)

NEWGENN HIGH LEVEL DISINFECTANT

NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES

MILL FARM

MILL LANE

TUNSTEAD

NORWICH

NR12 8HP

01692 536303

Manufacturer: NewGenn Research Limited,
5 Shepherds Grove Industrial Estate - West,
Stanton,
Bury St. Edmunds,
Suffolk IP31 2AR

Test Products: NewGenn High Level Disinfectant

Ingredients - Cocamido propylbenzene ammonium
chloride, di-decyl dimethyl ammonium chloride, acidity
modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms: *Campylobacter jejuni* NCTC 11951

Test Method and Validation EN1276 Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1.0% (i.e. 0.8 % in the test)
Appearance of product dilution	Clear solution
Contact time	1 minute, 5 minutes
Test Temperature	20C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3%, Sodium thiosulphate 0.5% Cystine 0. 1 % Histidine 0. 1 %

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in EN1276)

Summary of test method

The test method is described in EN1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional area (Phase 2, step 1). Copies of EN 1276 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1ml of the test bacterium with 1ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution which is then plated out to detect surviving organisms.

Bactericidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN1276

Dirty conditions (0.3% albumin)

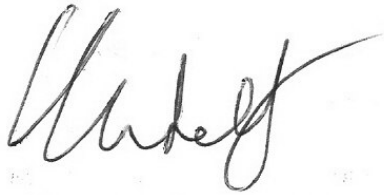
(Test carried out in duplicate)

Test Organism	Contact time	Log ₁₀ initial count (challenge) Mean	Log (10) reductions achieved Mean
Campylobacter jejuni	1 min	6.99	> 5.99
	5 min	6.99	> 5.99

To satisfy the requirements of this test a >5 log₁₀ reduction in test bacteria is required within 5 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN1276 complies with the criteria for acceptance (>5 log (10) reduction in 5 minutes) after 1 minute against *Campylobacter jejuni*.



K.M. Selt, M.B.I.C.Sc.,M.R.S.H.
Proprietor

17th December 2004

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End

EFFICACY TESTS (EN 1276)
NEWGENN HIGH LEVEL DISINFECTANT
NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES
MILL FARM
MILL LANE
TUNSTEAD
NORWICH
NR12 8HP

Manufacturer: NewGenn Research Limited,
5 Shepherds Grove Industrial Estate - West,
Stanton,
Bury S1. Edmunds,
Suffolk IP31 2AR

Test Products: NewGenn High Level Disinfectant

Ingredients - Cocamido propylbenzene ammonium
chloride, di-decyl dimethyl ammonium chloride, acidity
modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms *Serratia marcescens* NCTC 10211

Test Method and Validation ENI276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1% (i.e. 0.8% in the test)
Appearance of product dilution	Clear solution
Contact time	1 and 5 minutes.
Test Temperature	20 C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3%, Sodium thiosulphate 0.5% Cystine 0.1 % Histidine 0.1 %

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in ENI276)

Summary of test method

The test method is described in ENI276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional area (Phase 2, step 1). Copies of EN 1276 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1ml of the test bacterium with 1ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution which is then plated out to detect surviving organisms.

Bactericidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN1276

Dirty conditions (0.3% albumin)

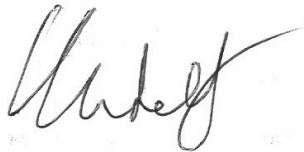
(Test carried out in duplicate)

Test Organism	Contact time	Log 10 initial count (challenge) Mean	Log (10) reductions achieved Mean
Serratia marcescens	1 min	7.32	4.91
	5 min	7.32	> 6.32

To satisfy the requirements of this test a > 5 log(10) reduction in test bacteria is required within 5 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN1276 complies with the criteria for acceptance after 5 minutes.

A handwritten signature in black ink, appearing to read 'K.M. Self', is centered on the page.

K.M. Self, M.B.I.C.Sc.,M.R.S.H.
Proprietor

6th September 2004

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End

EFFICACY TESTS (EN 1276)
NEWGENN HIGH LEVEL DISINFECTANT

NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES
MILL FARM
MILL LANE
TUNSTEAD
NORWICH
NR12 8IIP
01692536303

Manufacturer: NewGenn Research Limited,
5 Shepherds Grove Industrial Estate - West,
Stanton,
Bury St. Edmunds,
Suffolk IP31 2AR

Test Products: NewGenn High Level Disinfectant

Ingredients - Cocamido propylbenzene ammonium
chloride, di-decyl dimethyl ammonium chloride, acidity
modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms Corynebacterium bovis NCTC 3224

Test Method and Validation EN1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1.0% (i.e. 0.8 % in the test)
Appearance of product dilution	Clear solution
Contact time	1 minute, 5 minutes
Test Temperature	20C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3%, Sodium thiosulphate 0.5% Cystine 0.1 % Histidine 0.1 %

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in EN1276)

Summary of test method

The test method is described in EN1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional area (Phase 2, step 1). Copies of EN 1276 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1ml of the test bacterium with 1ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution which is then plated out to detect surviving organisms.

Bactericidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN1276

Log (10) counts/reduction achieved

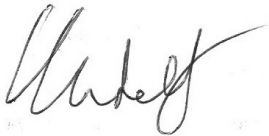
(Test carried out in duplicate)

Log (10) reductions achieved			
Test Organism	Contact time	Log 10 initial count (challenge) Mean	Dirty conditions (0.3% albumin) Mean
Corynebacterium bovis	1 min	6.36	> 5.36
	5 mins	6.36	> 5.36

To satisfy the requirements of this test a > 5 log(10) reduction in test bacteria is required within 5 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN1276 complies with the criteria for acceptance ($> 5 \log (10)$ reduction in 5 minutes) after 1 minute against *Corynebacterium bovis*.

A handwritten signature in black ink, appearing to read 'K.M. Self', is centered on the page.

K.M. Self, M.B.I.C.Sc.,M.R.S.H.
Proprietor

8th October 2004

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End

EFFICACY TESTS (EN 1276)

NEWGENN HIGH LEVEL DISINFECTANT

NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES

MILL FARM

MILL LANE

TUNSTEAD

NORWICH

NR12 8HP

01692536303

::

Manufacturer: NewGenn Research Limited,
5 Shepherds Grove Industrial Estate - West,
Stanton,
Bury S1. Edmunds,
Suffolk IP31 2AR

Test Products: NewGenn High Level Disinfectant

Ingredients - Cocamido propylbenzene ammonium
chloride, di-decyl dimethyl ammonium chloride, acidity
modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms Rhodococcus equi NCTC 1621

Test Method and Validation EN1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1.0% (i.e. 0.8 % in the test)
Appearance of product dilution	Clear solution
Contact time	1 minute, 5 minutes
Test Temperature	20C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3%, Sodium thiosulphate 0.5% Cystine 0.1 % Histidine 0.1 %

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in EN1276)

Summary of test method

The test method is described in EN1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional area (Phase 2, step 1). Copies of EN 1276 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1ml of the test bacterium with 1ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution, which is then plated out to detect surviving organisms.

Bactericidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN1276

Dirty conditions (0.3% albumin)

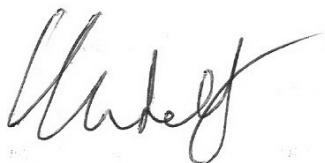
(Test carried out in duplicate)

Test Organism	Contact time	Log 10 initial count (challenge) Mean	Log (10) reductions achieved Mean
Rhodococcus equi	1 min	6.80	2.31
	5 min	6.80	> 5.80

To satisfy the requirements of this test a > 5 log(10) reduction in test bacteria is required within 5 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN1276 complies with the criteria for acceptance (> 5 log (10) reduction in 5 minutes) after 5 minutes against Rhodococcus equi.



KM. Self, M.B.I.C.Sc.,M.R.S.H.
Proprietor

8th November 2004

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End

Sporicidal activity.

The following test reports suggest that NewGenn Foam Hand Wash has a degree of sporicidal activity against both *Bacillus subtilis* and *Clostridium difficile* spores. It also has a similar effect on fungal spores of *Aspergillus niger*. The test method used was EN1276 requires a 5 log₁₀ reduction and as expected this mild product falls short of that high level of decontamination. It does however show sufficient sporicidal activity to make it a useful additional product for those clinical settings where it is advantageous to constantly reduce the number of spores on hands on a routine daily basis.

Therefore NewGenn Foam Hand Wash is presented as a product that will augment a prevention philosophy intended to routinely reduce the number of spores in the patient environment and therefore reduce the number of spores transferred to patients.

EFFICACY TESTS (EN 1276)

NEWGENN HIGH LEVEL DISINFECTANT

NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES

MILL FARM

MILL LANE

TUNSTEAD

NORWICH

NR12 8HP

Manufacturer: NewGenn Research Limited,
 5 Shepherds Grove Industrial Estate - West,
 Stanton,
 Bury St. Edmunds,
 Suffolk IP31 2AR.

Test Products:

NewGenn High Level Disinfectant

Ingredients - Cocamido propylbenzene ammonium chloride,
 Di-decyl dimethyl ammonium chloride, acidity
 modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms Bacillus subtilis IPP 5262
 (spores)

Test Method and Validation EN 1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1% (i.e. 0.8% in the test)
Appearance of product dilution	Clear solution
Contact time	5, 10, 15, 30 minutes
Test Temperature	20C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3%, Sodium thiosulphate 0.5% Cystine 0.1 % Histidine 0.1 %

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in EN1276)

Summary of test method

The test method is described in EN 1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation or bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional area (Phase 2, step 1). Copies of EN 1276 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1ml of the test bacterium with 1ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution which is then plated out to detect surviving organisms.

Bactericidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN 1276

Dirty conditions (0.3% albumin)

(Test carried out in duplicate)

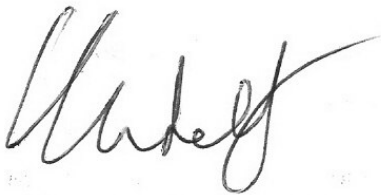
Test Organism	Contact time	Log 10 initial count (challenge) Mean	Log (10) reductions achieved Mean
Bacillus subtilis	5 min	7.00	1.89
	10 min	7.00	3.03
	15 min	7.00	3.21
	30 min	7.00	3.46

To satisfy the requirements of this test a > 5 log(10) reduction in test bacteria is required within 5 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN1276 does not comply with the criteria for acceptance after 30 minutes.

(> 5 log (10) reduction in 5 minutes required)

A handwritten signature in black ink, appearing to read 'K.M. Self', is centered on the page. The signature is fluid and cursive.

K.M. Self, M.B.I.C.Sc.,M.R.S.H.

Proprietor

28th July 2004

K76740

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End

EFFICACY TESTS (EN 1276)
NEWGENN HIGH LEVEL DISINFECTANT
NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES
MILL FARM
MILL LANE
TUNSTEAD
NORWICH
NRI2 8HP

Manufacturer: NewGenn Research Limited,
5 Shepherds Grove Industrial Estate – West
Stanton
Bury St Edmunds
Suffolk IP31 2AR

Test Products: NewGenn High Level Disinfectant

Ingredients -
Cocoamido propylbenzene ammonium chloride
Di-decyl dimethyl ammonium chloride, acidity
modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms Clostridium difficile NCTC 11209 (
spores)

Test Method and Validation EN1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1% (i.e. 0.8% in the test)
Appearance of product dilution	Clear solution
Contact time	5, 10, 15, 30 minutes
Test Temperature	20C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3%, Sodium thiosulphate 0.5% Cystine 0.1% Histidine 0.1%

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in EN1276)

Summary of test method

The test method is described in EN 1276 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional area (Phase 2, step I). Copies of EN 1276 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1 ml of the test bacterium with 1ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution which is then plated out to detect surviving organisms.

Bactericidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN1276

Dirty conditions (0.3% albumin)

(Test carried out in duplicate)

Test Organism	Contact time	Log 10 initial count (challenge) Mean	Log (10) reductions achieved Mean
Clostridium difficile	5 min	7.32	2.14
	10 min	7.32	2.34
	15 min	7.32	2.53
	30min	7.32	3.04

To satisfy the requirements of this test a > 5 log(10) reduction in test bacteria is required within 5 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN 1276 does not comply with the criteria for acceptance after 30 minutes.

(> 5 log (10) reduction in 5 minutes required)

A handwritten signature in black ink, appearing to read 'KM. Self', is centered on the page.

KM. Self, M.B.I.C.Sc.,M.R.S.H.
Proprietor

28th July 2004
K76746

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End

EFFICACY TESTS (EN 1650)
NEWGENN HIGH LEVEL DISINFECTANT

NEWGENN RESEARCH LIMITED

SCIENTIFIC SERVICES

MILL FARM
MILL LANE
TUNSTEAD
NORWICH
NR12 8HP

Manufacturer: NewGenn Research Limited,
5 Shepherds Grove Industrial Estate - West,
Stanton,
Bury St. Edmunds,
Suffolk IP31 2AR

Test Products:

NewGenn High Level Disinfectant

Ingredients - Cocamido propylbenzene ammonium chloride,
Di-decyl dimethyl ammonium chloride, acidity
modifiers

Lot No: 311001

Storage Conditions: Room temperature

Test Organisms Aspergillus niger ATCC 16404
(spores)

Candida albicans ATCC 10231
(vegetative)

Test Method and Validation EN1650 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (phase 2, step 1).

Product test concentration	1% in water of standard hardness (i.e. 0.8% in the test)
Appearance of product dilution	Clear solution
Contact time	1 minute and 15 minutes
Test Temperature	20C
Interfering substance	Bovine albumin 0.3% (dirty solutions)
Inhibition method	Dilution neutralisation
Neutraliser	Tween 80 10%, Lecithin 3%, Sodium thiosulphate 0.5% Cystine 0.1 % Histidine 0.1 %

Tests were performed to establish the suitability of this neutraliser in neutralising the activity of the disinfectant without being toxic to the test organisms (method described in EN1650)

Summary of test method

The test method is described in EN1650 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional area (Phase 2, step 1). Copies of EN 1650 are available from BSI, 389 Chiswick High Road, London W4 4AL.

The test method involves mixing 1ml of the test fungi with 1ml of soil (albumin), and then adding 8ml of disinfectant solution. After the contact time, 1ml is removed and added to 9ml of recovery/neutraliser solution which is then plated out to detect surviving organisms.

Fungicidal activity of NewGenn High Level Disinfectant

Using Phase 2 step 1 Suspension Test EN1650

Dirty conditions (0.3% albumin)

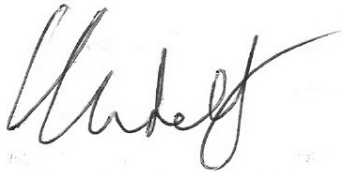
(Test carried out in duplicate)

Test Organism	Contact time	Log 10 initial count (challenge) Mean	Log 10 reductions achieved Mean
Candida albicans	1 min	6.51	> 5.51
	15 min	6.51	> 5.51
Aspergillus niger (spores)	1 min	6.23	1.12
	15 min	6.23	2.19

To satisfy the requirements of this test a > 4 log(10) reduction in test fungi is required within 15 minutes

Conclusion

NewGenn High Level Disinfectant, when tested under dirty conditions as specified in EN1650 complies with the criteria for acceptance (> 4 log (10) reduction in 15 minutes) in 1 minute and 15 minutes against *Candida albicans*, but fails against *Aspergillus niger* spores at 1 minute and 15 minutes.

A handwritten signature in black ink, appearing to read 'K.M. Self', is centered on the page.

K.M. Self, M.B.I.C.Sc.,M.R.S.H.
Proprietor

25th June 2004

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End

***In Vivo* activity**

As yet no *in vitro* tests such as EN1499 have been conducted for NewGenn Foam Hand Wash. It is marketed as a product with activity against a wide spectrum of microbes including Noro Virus and *Pseudomonas* but no claims are made for compliance with EN1499.

Section 4

Safety Assessment

Ingredients

All the ingredients in NewGenn Foam Hand Wash were selected as ones known to be safely used in existing skincare products. The quaternary ammonium compounds are also used safely in the food industry and have been for many decades. Therefore all the individual ingredients have high safety profiles.

The Formulation

The actual product has been in use within the hospital, veterinary and animal charity sectors for several years. Numerous users have reported that the use of this product coincided with an end to their chronic hand dermatitis and that anecdotal information is now being shared with dermatologists and occupational health professionals. The information is presented here as an indication of the formulation's high safety profile rather than any suggestion that the product cures skin complaints. What it probably does is remove the chemical insult delivered by many other skincare and hand decontamination products thereby allowing the skin to begin healing itself.

Environmental profile

NewGenn Foam Hand Wash is biodegradable under the European and American requirements.

Section 5

Clinical and Epidemiological data

Only data based on anecdotal user reports is available and that has yet to be compiled in a useable format.

The key factors brought by this product are an apparent increase in the willingness of users to comply with hand hygiene guidelines, activity against *Pseudomonas aeruginosa* which is not available with most liquid soaps and an absence of chlorhexidine which is now becoming accepted as the cause of skin damage with too many users.

Section 6

Conclusion

NewGenn Foam Hand Wash achieves all the design objectives listed on page 3.

It is now being used in nursing homes, households, veterinary practices, animal charities, the food industry and some hospitals.

As part of a system approach it helps construct a viable Prevention Philosophy to better combat health-care associated infections.

Appendix

The products in the NewGenn range to date

NewGenn's infection control products are part of a system comprised of four mini-systems.

Mini-system

Hands

- Foam Hand Rub
- Foam Hand Wash
- Foam Deep Wash
- Wet Wipes

Environmental

- Antimicrobial Cleanser spray
- High Level Disinfectant
- Wet Wipes

Instruments

- Instrument Wash
- Instrument Disinfectant
- Wet Wipes

Patient

- Personal Care Foam
- Wet Wipes

Laundry

- System Sanitise

Air space

- Biobreez[®]

More products will be added when appropriate on a market-led basis. NewGenn Research is predominantly a research company with the research element is firmly based on a Prevention Philosophy.