

EFFICACY TESTS (EN 1276)  
NEWGENN PERSONAL CARE PRODUCT  
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 Personal Care Product

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

Lot No: 25/8/04

Storage Conditions: Room temperature

Test Organisms Escherichia coli ATCC 10536

Pseudomonas aeruginosa ATCC 15442

Staphylococcus aureus ATCC 6538

Enterococcus hirae ATCC 10541

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	Undiluted (i.e. 80% in the test)
Appearance of product dilution	Clear pale blue 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 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 Personal Care Product

Using Phase 2 step 1 Suspension Test EN1276

Log (10) counts/reduction achieved in 1 minute

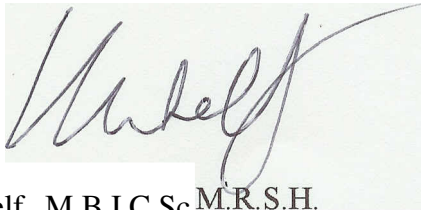
(Test carried out in duplicate)

Log (10) reductions achieved			
Test Organism	Contact time	Log 10 initial count ( challenge) Mean	Dirty conditions ( 0.3% albumin) Mean
Staphylococcus aureus	1 min	7.53	> 6.53
Escherichia coli	1 min	7.28	> 6.28
Pseudomonas aeruginosa	1 min	6.99	> 5.99
Enterococcus hirae	1 min	7.15	> 6.15

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

## Conclusion

NewGenn Personal Care Product, when tested under dirty conditions as specified in EN1276 complies with the criteria for acceptance ( $> 5 \log (10)$  reduction in 5 minutes) against *Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa* and *Enterococcus hirae*.

A handwritten signature in black ink on a light green background. The signature is cursive and appears to read 'K.M. Self'.

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

6th September 2004