

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 JP31 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 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 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

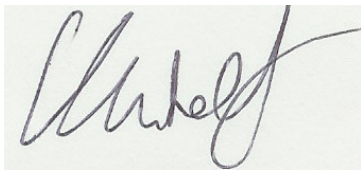
(Test carried out in duplicate)

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 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 *Salmonella choleraesuis*, *Escherichia coli* 0157, *Listeria monocytogenes* and *Proteus vulgaris*.

A handwritten signature in black ink on a light-colored 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 August 2004