

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 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)

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 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*.

A handwritten signature in black ink, appearing to read 'K. Self', written over a light-colored rectangular background.

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

2nd August 2004