



LABORATORY SAMPLE REPORT: CERTIFICATE OF ANALYSIS

NANOCARE SA
3 HESKETH ROAD
WESTMEAD
PINETOWN
KZN 3610
082 495 3279
082 775 2282

TEST REP NO : 015/22
ISSUE NO : 001
REPORT DATE : 11/08/22
DATE REC : 11/07/22
DATE TESTED : 17/07/22
PAGE : 1 OF 2

ATTENTION: SHAUN VAN WYNGAARD

1. CONDITION OF SAMPLE ON RECEIPT PRIOR TO TESTING: ACCEPTABLE

2. DESCRIPTION OF SAMPLE: NANOCHLOR/NANOPURE/NANOCLEAN
3,25g EFFERVESCENT DISINFECTANT TABLET
SODIUM DICHLOORISOCYANURATE (NaDCC) @ 52%
QUANTUM NANO SILVER @ 0.008%
1X3.2g TABLET=1000ppm to 1/lt WATER
B/N:18901
DATE: 01/05/2022
EXPIRY DATE: 30/04/2025

3. TEST REQUESTED AND OBJECTIVE OF THE TESTING:

Swab testing of treated surfaces, to determine the residual bactericidal activity of the sample/product at a 1,7 and 14 day period.

4. TEST METHOD REFERENCED:

SANS 5763: Testing of environmental swabs for the T.A.C. (Total Aerobic Count of the recoverable organisms present).

5. TEST PROCEDURE:

- A melamine surface, cleaned and disinfected with 70% ethanol, was used for the testing. Ethanol was given sufficient time to dry and evaporate before any testing commenced.
- Surfaces were also swabbed for control testing purposes and to ensure levels of sterility during testing.
- All surfaces were marked for identification, with sufficient spacing to ensure completion of all tests.
- The surface was then sanitised/disinfected with the product (Nanochlor/Nanopure/Nanoclean disinfectant tablet) in a solution of tap water, the test area was disinfected by the spray and wipe method.
- Surface area of 10cm² was then inoculated with the E.coli organism, using 1ml of the inoculum preparation (organism count used per ml $\pm 1.0 \times 10^9$ cfu/ml).
- After organism exposure and contact time of 3 hours, the surfaces were then swabbed for T.A.C, recovery of organisms, still present.
- The above test was carried out at the 1, 7 and 14 day period.

NOTE: LABS VALUES OUR CLIENT'S COMMENTS. PLEASE DO NOT HESITATE TO OFFER SUGGESTIONS OR COMMENTS THAT COULD IMPROVE OUR SERVICE

50 Hennie Alberts Street Brackenhurst 1448

P.O. Box 145406 Brackengardens 1452 • Tel: 011 867-2059/0593 • Fax: 011 867-3281 • E-mail labserve@mweb.co.za

Reg. No. CK 91/08374/23 • Members: **R.G. Khoury, **C.A. Khoury,

**Approved signatories: **E. Mohlaping

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PAGE : 2 OF 2

6. TEST RESULTS: SPRAY AND WIPE METHOD, 3 HOUR EXPOSURE TIME Organism: E.coli ATCC 8739

DAY 1

Viable Organisms Added 0 Time	Control Count	Spray and wipe Surface	% Kill Rate
6.0×10^8	5.0×10^6	4.0×10^4	99,20

DAY 7

Viable Organisms Added 0 Time	Control Count	Spray and wipe Surface	% Kill Rate
4.0×10^9	1.0×10^8	3.0×10^1	99,99

DAY 14

Viable Organisms Added 0 Time	Control Count	Spray and wipe Surface	% Kill Rate
3.0×10^9	9.0×10^6	0.0	100

7. INTERPRETATION OF RESULTS

The actives in the product (Nanochlor/Nanopure/Nanoclean disinfectant tablet) within the prescribed exposure time of 3 hours has reached a 100% kill rate of the E.coli organisms present, with a range of between 99.20 and 100%. The surface was only sprayed and wiped once, then tested after a 3 hour exposure time of organisms @ Day 1, @ Day 7 and @ Day 14. The Nanosilver remained active on this surface after only 1 application for the above period tested.

COMMENTS:

REPORTED BY: R. KHOURY
MICROBIOLOGIST

REPORTED BY: E. MOHLAPING
LAB MANAGER

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cfu/g/ml: Colony forming units per gram or per ml of sample tested

*Not an accredited method

ND: Not detected



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- Surfaces were also swabbed for control testing purposes and to ensure levels of sterility during testing.
- All surfaces were marked for identification, with sufficient spacing to ensure completion of all tests.
- The surface was then sanitised/disinfected with the product (Nanochlor/Nanopure/Nanoclean disinfectant tablet) in a solution of tap water, the test area was disinfected by the spray and wipe method.
- Surface area of 10cm² was then inoculated with the Staph Aureus organism, using 1ml of the inoculum preparation (organism count used per ml $\pm 1.0 \times 10^9$ cfu/ml).
- After organism exposure and contact time of 3 hours, the surfaces were then swabbed for T.A.C, recovery of organisms, still present.
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PAGE : 2 OF 2

6. TEST RESULTS: SPRAY AND WIPE METHOD, 3 HOUR EXPOSURE TIME Organism: Staph Aureus ATCC 6538

DAY 1

Viable Organisms Added 0 Time	Control Count	Spray and wipe Surface	% Kill Rate
2.0×10^8	4.0×10^7	2.3×10^7	42,50

DAY 7

Viable Organisms Added 0 Time	Control Count	Spray and wipe Surface	% Kill Rate
7.0×10^9	9.0×10^8	7.0×10^4	99,99

DAY 14

Viable Organisms Added 0 Time	Control Count	Spray and wipe Surface	% Kill Rate
7.3×10^9	2.6×10^9	3.9×10^3	99,99

7. INTERPRETATION OF RESULTS

The actives in the product (Nanochlor/Nanopure/Nanoclean disinfectant tablet) within the prescribed exposure time of 3 hours has reached a 99,99% kill rate of the Staph Aureus organisms present, with a range of between 42,50% and 99,99%. The surface was only sprayed and wiped once, then tested after a 3 hour exposure time of organisms @ Day 1, @ Day 7 and @ Day 14. The Nanosilver remained active on this surface after only 1 application for the above period tested.

COMMENTS:

REPORTED BY: R. KHOURY
MICROBIOLOGIST

REPORTED BY: E. MOHLAPING
LAB MANAGER

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