

# Test Report: EN 1276:2019 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 – Test method and requirements (phase 2, step 1)

**Test Laboratory****BluTest Laboratories Ltd**

5 Robroyston Oval, Nova Business Park, Glasgow G33 1AP

**Identification of sample**

Name of the product

**Target-19 Anti-Viral & Bactericidal Surface Disinfectant**

Batch number

K5093

Client

RJN Chemicals Limited

Client address

5 The Ridgeway, Iver, SLO 9HX

Project code

BT-GEN-03

Date of delivery

16 April 2020

Storage conditions

Ambient

Active substances

L-lactic acid

**Test Method and Neutralisation**

Method

Filtration neutralisation

**Experimental Conditions**

Period of analysis

13 May 2020 to 22 May 2020

Product diluent used

Sterile synthetic hard water

Product test concentrations

**10.0% v/v; 5.0% v/v; 2.5% v/v**

Appearance product dilutions

No changes noted

Appearance in test mixture

No changes noted

Contact time

t = 5 mins ± 10 s

Test temperature

20°C ± 1°C

Interfering substance

3.0g/l bovine albumin

Temperature of incubation

37°C ± 1°C

Identification of strains

*Staphylococcus aureus* ATCC 6538*Enterococcus hirae* ATCC 10541*Pseudomonas aeruginosa* ATCC 15442*Escherichia coli* ATCC 10536

## EN 1276:2009 Results

| Results for the efficacy of Target-19 Anti-Viral & Bactericidal Surface Disinfectant Concentrate from RJN Chemicals Ltd under Dirty conditions   |                                     |                                    |                                    |                                    |   |   |                    |                    |                    |
|--|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|---|---|--------------------|--------------------|--------------------|
| Test organisms   | Validation test                     |                                    |                                    |                                    | Bacterial Test Suspension (N)                       | Test procedure at concentration % (V/V) |                    |                    |                    |
|  | Bacterial Suspension (Nv)           | Experimental Conditions (A)        | Filtration Control (B)             | Filtration Test Control (C)        |   | 2.5%                                    | 5.0%               | 10.0%              |                    |
| <i>Pseudomonas aeruginosa</i>  | Vc: 80 ; 94                         | Vc: 62 ; 64                        | Vc: 51 ; 60                        | Vc: 58 ; 79                        | 10-6: >330 ; >330<br>10-7: 40 ; 36<br>N: 3.8 0E +08 | Vc: 30 ; 6<br>Na: 1.80E+02              | 0 ; 0<br><1.40E+02 | 0 ; 0<br><1.40E+02 | 0 ; 0<br><1.40E+02 |
| ATCC 15442   | Nv: 8.70E+02                        | A: 6.30E+01                        | B: 5.55E+01                        | C: 6.85E+01                        | Q: n/a  | R: >10(5)                               | >10(5)             | >10(5)             | >10(5)             |
| Validation   | 30 ≤ Nv <sub>0</sub> ≤ 160 ?<br>yes | A ≥ 0.5 x Nv <sub>0</sub> ?<br>yes | B ≥ 0.5 x Nv <sub>0</sub> ?<br>yes | C ≥ 0.5 x Nv <sub>0</sub> ?<br>Yes | 7.17 ≤ log N ≤ 7.70 ?<br>yes                        | Test is valid                           |                    |                    |                    |
| <i>Escherichia coli</i>  | Vc: 80 ; 73                         | Vc: 79 ; 82                        | Vc: 69 ; 80                        | Vc: 84 ; 89                        | 10-6: >330 ; >330<br>10-7: 29 ; 39<br>N: 3.4 0E +08 | Vc: 0 ; 0<br>Na: <1.40E+02              | 0 ; 0<br><1.40E+02 | 0 ; 0<br><1.40E+02 | 0 ; 0<br><1.40E+02 |
| ATCC 10536   | Nv: 7.65E+02                        | A: 8.05E+01                        | B: 7.45E+01                        | C: 8.65E+01                        | Q: n/a  | R: >10(5)                               | >10(5)             | >10(5)             | >10(5)             |
| Validation   | 30 ≤ Nv <sub>0</sub> ≤ 160 ?<br>yes | A ≥ 0.5 x Nv <sub>0</sub> ?<br>yes | B ≥ 0.5 x Nv <sub>0</sub> ?<br>yes | C ≥ 0.5 x Nv <sub>0</sub> ?<br>Yes | 7.17 ≤ log N <sub>0</sub> ≤ 7.70 ?<br>yes           | Test is valid                           |                    |                    |                    |
| <i>Staphylococcus aureus</i>   | Vc: 62 ; 51                         | Vc: 49 ; 51                        | Vc: 55 ; 38                        | Vc: 51 ; 52                        | 10-6: >330 ; >330<br>10-7: 26 ; 17<br>N: 2.1 5E +08 | Vc: 3 ; 5<br>Na: <1.40E+02              | 0 ; 0<br><1.40E+02 | 0 ; 0<br><1.40E+02 | 0 ; 0<br><1.40E+02 |
| ATCC 6538  | Nv: 5.65E+02                        | A: 5.00E+01                        | B: 4.65E+01                        | C: 5.15E+01                        | Q: n/a  | R: >10(5)                               | >10(5)             | >10(5)             | >10(5)             |
| Validation   | 30 ≤ Nv <sub>0</sub> ≤ 160 ?<br>yes | A ≥ 0.5 x Nv <sub>0</sub> ?<br>yes | B ≥ 0.5 x Nv <sub>0</sub> ?<br>yes | C ≥ 0.5 x Nv <sub>0</sub> ?<br>Yes | 7.17 ≤ log N <sub>0</sub> ≤ 7.70 ?<br>yes           | Test is valid                           |                    |                    |                    |
| <i>Enterococcus hirae</i>  | Vc: 65 ; 68                         | Vc: 43 ; 84                        | Vc: 47 ; 49                        | Vc: 53 ; 52                        | 10-6: >330 ; >330<br>10-7: 22 ; 26<br>N: 2.40E+08   | Vc: 9 ; 1<br>Na: <1.40E+02              | 1 ; 0<br><1.40E+02 | 0 ; 0<br><1.40E+02 | 0 ; 0<br><1.40E+02 |
| ATCC 10541   | Nv: 6.65E+02                        | A: 6.35E+01                        | B: 4.80E+01                        | C: 5.25E+01                        | Q: n/a  | R: >10(5)                               | >10(5)             | >10(5)             | >10(5)             |
| Validation   | 30 ≤ Nv <sub>0</sub> ≤ 160 ?<br>yes | A ≥ 0.5 x Nv <sub>0</sub> ?<br>yes | B ≥ 0.5 x Nv <sub>0</sub> ?<br>yes | C ≥ 0.5 x Nv <sub>0</sub> ?<br>Yes | 7.17 ≤ log N <sub>0</sub> ≤ 7.70 ?<br>yes           | Test is valid                           |                    |                    |                    |
| Please note: the upper limit for counting bacterial plates is 330 cfu. Enter as >330. For filter membranes, this is 165 cfu. Enter as >165.  |                                     |                                    |                                    |                                    |   |   |                    |                    |                    |
| Definitions: Vc = viable count; N = number of cfu/ml in the bacterial test suspension; Q = quotient of control of weighted mean counts; Nv = number of cfu/ml in the bacterial validation suspension; A = number of cfu/ml in the experimental conditions validation; B = number of cfu/ml in the filtration control; C = number of cfu/ml in the membrane-filtration neutralisation method validation; Na = number of cfu/ml in test mixture after contact time; R = reduction in viability (Log10) |                                     |                                    |                                    |                                    |   |   |                    |                    |                    |

## Conclusion

According to EN 1276:2019, **Target-19 Anti-Viral & Bactericidal Surface Disinfectant Concentrate POSSESSES BACTERICIDAL** activity at a concentration of **2.5% v/v** as tested after **5 MINUTES** at **20°C** under **DIRTY** conditions (3.0 g/l bovine albumin) against *Pseudomonas aeruginosa* ATCC 15442, *Escherichia coli* ATCC 10536, *Staphylococcus aureus* ATCC 6538 and *Enterococcus hirae* ATCC 8043.

Authorised signatory



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BluTest Laboratories Ltd  
Glasgow, UK.

Date: 27 MAY 2020



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Expanded Uncertainty of Measurement U = ± 0.0044 logs

### DISCLAIMER

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