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### Interim Test Report

Attention: Dennis Bird  
DYNA FOG AFRICA CC.  
Address: Plot 942  
Vaalower

Lab Number: 472380  
Order reference: 220118  
Sample Date: 2017/10/06  
Submit Date: 2017/10/06  
Report Date: 2018/01/30

### Disinfectant testing: Efficacy determination of Sani-Guard tested against VC8054:2017

#### PRODUCT DETAILS:

<b>Product name:</b>	Sani-Guard
<b>Visual inspection:</b>	Clear liquid
<b>Storage Instructions:</b>	Not supplied
<b>Batch:</b>	Not supplied

#### MATERIALS & EXPERIMENTAL CONDITIONS:

<b>Date of test:</b>	2018/01/17
<b>Test Organisms:</b>	<i>Escherichia coli</i> ATCC 10536 <i>Staphylococcus aureus</i> ATCC 6538 <i>Aspergillus brasiliensis</i> ATCC 16404 <i>Bacillus subtilis</i> ATCC11774 <i>Pseudomonas aeruginosa</i> ATCC 15442
<b>Test Temperature</b>	22°C
<b>Interfering substance:</b>	Bovine albumin (0.5ml/10ml)
<b>Diluent</b>	Sterile water
<b>Product concentration / Dilution.</b>	Neat
<b>Neutralizer</b>	Removal by rinsing with distilled water.

**TEST RESULTS:**

<b>Organism:</b>	<b><i>Escherichia coli</i></b>
<b>Initial organism load</b>	1.77 X 10 <sup>7</sup>
<b>Contact time</b>	5 Minutes
<b>Final organism load</b>	0
<b>Killing efficacy</b>	>99.999%
<b>Log reduction</b>	7.24

<b>Organism:</b>	<b><i>Pseudomonas aeruginosa</i></b>
<b>Initial organism load</b>	2.42 X 10 <sup>7</sup>
<b>Contact time</b>	5 Minutes
<b>Final organism load</b>	0
<b>Killing efficacy</b>	>99.999%
<b>Log reduction</b>	7.38

<b>Organism:</b>	<b><i>Salmonella Typhimurium</i></b>
<b>Initial organism load</b>	1.64 X 10 <sup>7</sup>
<b>Contact time</b>	5 Minutes
<b>Final organism load</b>	0
<b>Killing efficacy</b>	>99.999%
<b>Log reduction</b>	7.21

<b>Organism:</b>	<b><i>Staphylococcus aureus</i></b>
<b>Initial organism load</b>	1.25 X 10 <sup>7</sup>
<b>Contact time</b>	5 Minutes
<b>Final organism load</b>	0
<b>Killing efficacy</b>	>99.999%
<b>Log reduction</b>	7.09

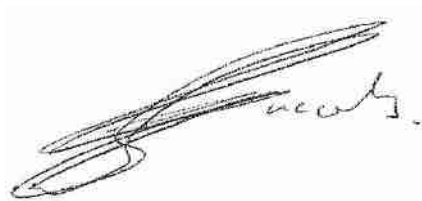
<b>Organism:</b>	<b><i>Proteus vulgaris</i></b>
<b>Initial organism load</b>	2.39 X 10 <sup>7</sup>
<b>Contact time</b>	5 Minutes
<b>Final organism load</b>	0
<b>Killing efficacy</b>	>99.999%
<b>Log reduction</b>	7.37

<b>Organism:</b>	<b><i>Bacillus subtilis</i> spores</b>
<b>Initial organism load</b>	1.65 X 10 <sup>6</sup>
<b>Contact time</b>	1 Hour
<b>Final organism load</b>	0
<b>Killing efficacy</b>	>99.9%
<b>Log reduction</b>	6.21

**CONCLUSION:**

SANI-GUARD was able to achieve a >99.999 killing efficacy within a 5 minute contact time against all viable bacteria in accordance with SANS51276:2009

SANI-GUARD also achieved a >99.9% killing efficacy against Bacillus subtilis Spores within a 60 minute contact period as prescribed by SANS13704:2002

A handwritten signature in black ink, appearing to read 'S. Smith', is written over a light grey rectangular background.

Laboratory services manager – Hygiene Services.