Prebona

**C O N F I D E N T I A L**

**REPORT #8**

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|---|---|
| **Name of report:** | Study Report 17 23 00001 |
| **Date:** | 2017-02-20 |
| **Laboratory:** | QACS LTD<br>Antigonis str.<br>144-51 Metamorfossi<br>Greece |
| **Report signded by:** | Lagiopoulos Giorgos, Study Manager |
| **Type of AGSOL:** | AGSOL 1000-5-5 (Prebona Protect)<br>AGSOL 500-5-2,5 (Prebona Protect diluted 1:2)<br>AGSOL 10-5-0,05 (Prebona Protect diluted 1:100) |
| **Substrate:** | Agar |
| **Microorganism:** | *Pseudomonas aeruginosa*<br>*Staphylococcus aureus* |
| **Standard:** | EN 1040 (Phase 1) |


**Summary:**

AGSOL 1000-5-5, AGSOL 500-5-2,5 and AGSOL 10-5-0,05 have log reduction between 2,49 and 2,63 in accordance with EN 1040, within 5 minutes at 20±1°C using as test organism *Pseudomonas aeruginosa*.

AGSOL 1000-5-5, AGSOL 500-5-2,5 and AGSOL 10-5-0,05 have log reduction of 2,88 in accordance with EN 1040, within 5 minutes at 20±1°C using as test organism *Staphylococcus aureus*.

AGSOL 100-5-0,5 (Prebona Fotdesinfektion) is calculated to have a log reduction of 2,55 for *Pseudomonas aeruginosa* and 2,88 for *Staphylococcus aureus,* corresponding to a Kill rate of >99% with regards to both bacteria within 5 minutes at 20±1°C.

## TEST RESULTS FOR *Pseudomonas aeruginosa*

| AGSOL | Time | Temperature | log reduction | Viability | Kill rate (%) |
|---|---|---|---|---|---|
| **AGSOL 1000-5-5** | 5 min | 20°C | 2,59 | >1,0x10$^2$ | >99% |
| **AGSOL 500-5-2,5** | 5 min | 20°C | 2,63 | >1,0x10$^2$ | >99% |
| **AGSOL 10-5-0,05** | 5 min | 20°C | 2,49 | >1,0x10$^2$ | >99% |

## TEST RESULTS FOR *Staphylococcus aureus*

| AGSOL | Time | Temperature | log reduction | Viability | Kill rate (%) |
|---|---|---|---|---|---|
| **AGSOL 1000-5-5** | 5 min | 20°C | 2,88 | >1,0x10$^2$ | >99% |
| **AGSOL 500-5-2,5** | 5 min | 20°C | 2,88 | >1,0x10$^2$ | >99% |
| **AGSOL 10-5-0,05** | 5 min | 20°C | 2,88 | >1,0x10$^2$ | >99% |

AGSOL 1000-5-5 contains 1000 ppm Ag
AGSOL 500-5-2,5 contains 500 ppm Ag
AGSOL 10-5-0,05 contains 10 ppm Ag

AGSOL 100-5-0,5 (Prebona Fotdesinfektion) contains 100 ppm Ag

From above results for AGSOL with different concentrations of Ag, it is calculated that AGSOL 100-5-0,5 (Prebona Fotdesinfektion) has a log reduction of 2,55 (Kill rate of >99%) for Pseudomonas aeruginosa and a log reduction of 2,88 (Kill rate of >99%) for Staphylococcus aureus within 5 minutes at 20±1°C.