

XTRA 

STERI-Z

**HIGH LEVEL
SURFACE
DISINFECTANT
CLEANER**

**REACTIVE BARRIER
TECHNOLOGY
PROTECTION
BETWEEN CLEANS**

**KILLS PATHOGENS
99.9999%
WITHIN SECONDS**

SPARSHOLT
COLLEGE HAMPSHIRE

Summary of Results March 2015

Summary of Results

Method

10 cm² net samples previously submerged for 72 hours in catfish biological filter to ensure consistent bacterial contamination. Net samples then immersed for 10 minutes in disinfectant concentrations as shown below. Bacterial numbers then calculated as colony forming units per cm² (CFU/cm²) by placing treated net sample in 10cm² of sterile water, undertaking serial dilutions and plating onto tryptone soy agar. All treatments performed in triplicate.

Treatment	Average C.F.U per 1cm ² net
Control (untreated net)	>10000000
Virkon® Aquatic 1:100	163
Virkon® Aquatic 1:200	280
STERI-7 1:10	43
STERI-7 1:50	77
Air Dry	115300

These results (as is often the case) indicate a low and consistent level of contamination during the sampling. Therefore bacterial colony counts of less than 10 per plate are less reliable because they could just be contaminants. This was the case for the STERI-7 counts at 0.01 dilution meaning that the level of bacterial reduction by STERI-7 was probably even greater than shown above. Worth investigating further?! Overall, a useful pilot study demonstrating the effectiveness of STERI-7 as an aquatic disinfectant.

Summary of pre-treatment results

Method

10cm² net samples pre-treated in Virkon (1:100) & STERI-7 (1:10) for 10mins before being hung in the catfish biofilter for 3, 6 and 9 days. Bacterial numbers then calculated as colony forming units per cm² (CFU/cm²) by placing contaminated net sample in 10cm² of sterile water, undertaking serial dilutions and plating onto tryptone soy agar. All treatments performed in triplicate.

Days in bio-filter	Net pre-treatment	Av. Colony count from 0.0001 dilution
3	Control (untreated net)	126
	Virkon (1:100)	36
	STERI-7 (1:10)	10
6	Control (untreated net)	195
	Virkon (1:100)	114
	STERI-7 (1:10)	63
9	Control (untreated net)	287
	Virkon (1:100)	73
	STERI-7 (1:10)	34

Data indicates that pre-treatment of nets with both Virkon & STERI-7 result in a reduction in bacteria numbers following contamination in the biofilter (approx. 10X reduction for STERI-7).

STERI-7



Pioneering with integrity

The biocidal cleaner that out-performs all others.
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