



MGS LABORATORIES LIMITED

Contract Microbiological Services

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Sustained action of Steri-7 against MRSA, *Salmonella enteritidis* and *E. coli*

Method Statement:

18 mm square stainless steel coupons were thoroughly degreased, rinsed, sterilised and allowed to dry under laminar flow. A number of surfaces were sprayed with the sample of Steri-7 supplied by Sentinel products and allowed to dry at room temperature in a current of sterile air.

Experiments were performed at a 7 day time point only

The 3 test organisms were sub-cultured 24 hours before the experiment on Tryptone Soya Agar. Directly before testing, inoculums of MRSA, *Salmonella enteritidis* and *E. coli* were prepared each with a population of approximately 10^8 cfu/ml.

For each organism 0.05 ml of inoculum was transferred to 4 separate coated surfaces and to 4 uncoated surfaces (control experiment).

When the nominated contact times of 5, 30, 60 and 180 minutes had elapsed, a coated and an uncoated surface for each inoculum, was transferred to separate 10 ml aliquots of sterile water and agitated.

1ml aliquots of the water were then pour plated in duplicate using TSA, incubated for 72 hours at 32°C and enumerated.

Data

Time from spraying	Contact Time	Steri-7	Control
MRSA (NCTC 12493)	5 min	0	TNTC
	30 min	0	TNTC
	60 min	0	TNTC
	180 min	0	TNTC
<i>Salmonella enteritidis</i> (NCTC 12694)	5 min	0	TNTC
	30 min	0	TNTC
	60 min	0	TNTC
	180 min	0	TNTC
<i>E. coli</i> (NCTC 10418)	5 min	0	TNTC
	30 min	0	TNTC
	60 min	0	TNTC
	180 min	0	TNTC



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Results

- After one application Steri-7 remained capable of killing MRSA, *Salmonella enteritidis* and *E.coli* up to 7 days.
- After 7 days, Steri-7 was able to kill the MRSA, *Salmonella enteritidis* and *E.coli* organisms within five minutes

Conclusion

Using the methodology described above, Steri-7 was found to be effective in killing MRSA, *Salmonella enteritidis* and *E.coli* after one application. This effect was sustained over a period of seven days.

Report issued by:

R Grant 30/11/05

R Grant
Director