50 Microbes–Tentative Final Monograph (TFM) Testing

The broad spectrum kill of Hibiclens® is demonstrated.

METHOD

TFM contains a list of organisms against which an antiseptic can be tested to determine its broad spectrum kill. These include Gram positive and Gram negative, bacilli and/or cocci, viruses, yeasts and fungi.

The list on the next page contains 22 species – one from the American Type Culture Collection (ATCC) strain and another from the BioScience Laboratories Inc. (BSLI) strain. For three of the organisms (noted with a '(2)' on the chart), TFM requires testing of four strains, rather than two. Thus, those three, plus the 22, equal 25 organisms for each of the two strains, totaling 50 organisms.

RESULTS

- In a test to determine broad spectrum kill against 50 organisms, Hibiclens killed almost half (20 of 50 strains) of the organisms within 15 seconds, and eight more organisms were killed at 1 minute. Remaining strains were killed at 5 to 10 minutes.
- All the organisms were killed by Hibiclens to the 99.999% level or the maximum kill within the limits of the test method after 10 minutes of exposure.

Protocol # 050339-201

Although the APIC and HICPAC guidelines have been adopted by the majority of hospitals, adherence of healthcare workers to recommended handwashing practices has remained low.

– Pittet D, Mourouga P, Perneger TV, Members of the Infection Control Program. Compliance with handwashing in a teaching hospital. ***Ann Intern Med*** 1999;130:126–30 and Boyce JM. It is time for action: improving hand hygiene in hospitals. *Ann Intern Med* 1999;130:153–5

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	TFM LIST OF ORGANISMS	ATCC #	99.9999% KILL	BSLI #	99.9999% KILL
1.	*Acinetobacter baumannii*	9955	15 sec	061901Ab3	1 min
2.	*Bacteroides fragilis*	29762	10 min	080802Bf2	10 min
3.	*Candida albicans*	10231	3 min	042905Ca	10 min
4.	*Candida tropicalis*	750	3 min	042905Ct	5 min
5.	*Enterobacter cloacae*	39979	3 min	070700Ec19	5 min
6.	*Enterococcus faecalis*	29212	10 min	061901Efs5	10 min
7.	*Enterococcus faecium*	51559	10 min	06190Efm5	3 min
8.	*Escherichia coli* (2)	11229	15 sec	042905Ec1	15 sec
		25922	15 sec	042905Ec2	15 sec
9.	*Haemophilus influenzae*	33929	15 sec	080802Hi1	15 sec
10.	*Klebsiella oxytoca*	15764	15 sec	061901Ko2	15 sec
11.	*Klebsiella pneumoniae*	51504	15 sec	061901Kpn2	15 sec
12.	*Micrococcus luteus*	7468	15 sec*	061901M13	10 min*
13.	*Proteus miribalis*	7002	15 sec	061901Pm2	15 sec
14.	*Pseudomonas aeruginosa* (2)	15442	15 sec	061901Pa2	15 sec
		27853	15 sec	061901Pa3	15 sec
15.	*Serratia marcescens*	14756	15 sec	060700Sm19	3 min
16.	*Staphylococcus aureus* (2)	6538	10 min	032301MMRSa5	10 min
		29213	3 min	061901Sa1	10 min
17.	*Staphylococcus epidermidis*	12228	3 min	062900Se5	3 min
18.	*Staphylococcus haemolyticus*	43253	1 min	061700Sha5	1 min
19.	*Staphylococcus hominus*	27845	1 min	060700Sho5	1 min
20.	*Staphylococcus saprophyticus*	49453	1 min	061700Ss11	3 min
21.	*Streptococcus pneumoniae*	33400	1 min*	080802Spn7	15 sec*
22.	*Streptococcus pyogenes*	19615	1 min*	080802Spy10	10 min

15 sec | 1 min | 3 min | 5 min | 10 min

* maximum kill within the limits of the test method

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