

Rapid Broad Spectrum Antimicrobial Activity:

Table 1: Time-Kill Testing Results: My-shield® Hand Sanitizer Foam with Aloe Vera Meets or Exceeds Efficacy Standards in Applicable Regulations

Micro-organism	Time (Seconds)	Log ₁₀ (%) Reductions
1. Acinetobacter baumannii (ATCC# 25285) ⁵	15 Sec	>6.02 (99.9999%)
	30 Sec	>6.02 (99.9999%)
	60 Sec	>6.02 (99.9999%)
2. Bacteroides fragilis (ATCC# 25285) ⁵	15 Sec	6.03 (99.9999%)
	30 Sec	6.03 (99.9999%)
	60 Sec	6.03 (99.9999%)
3. Haemophilus influenzae (ATCC #33930) ⁵	15 Sec	>6.12 (99.9999%)
	30 Sec	>6.12 (99.9999%)
	60 Sec	>6.12 (99.9999%)
4. Enterobacter aerogenes (ATCC #13048) ⁵	15 Sec	>6.02 (99.9999%)
	30 Sec	>6.02 (99.9999%)
	60 Sec	>6.02 (99.9999%)
5. Escherichia coli (ATCC #11229) ^{3,5}	15 Sec	>6.01 (99.9999%)
	30 Sec	>6.01 (99.9999%)
	60 Sec	>6.01 (99.9999%)
6. Escherichia coli (ATCC #10536) ⁵	15 Sec	>6.78 (99.9999%)
	30 Sec	>6.78 (99.9999%)
	60 Sec	>6.78 (99.9999%)
7. Escherichia coli (ATCC #25922) ⁴	30 Sec	>5.0 (99.999%)
	60 Sec	>5.0 (99.999%)
8. Escherichia coli (O157:H7) ¹	15 Sec	>4.0 (99.99%)
9. Klebsiella oxytoca (ATCC #13182) ⁵	15 Sec	>6.03 (99.9999%)
	30 Sec	>6.03 (99.9999%)
	60 Sec	>6.03 (99.9999%)
10. Klebsiella pneumoniae (ATCC #51504) ⁴	15 Sec	>5.00 (99.999%)
	30 Sec	>5.00 (99.999%)
	60 Sec	>5.00 (99.999%)
11. Klebsiella pneumoniae (ATCC #4352) ⁵	15 Sec	>6.04 (99.9999%)
	30 Sec	>6.04 (99.9999%)
	60 Sec	>6.04 (99.9999%)

Micro-organism	Time (Seconds)	Log ₁₀ (%) Reductions
12. <i>Pseudomonas aeruginosa</i> (ATCC #9027) ⁷	15 Sec	>6.78 (99.9999%)
	30 Sec	>6.78 (99.9999%)
	60 Sec	>6.78 (99.9999%)
13. <i>Pseudomonas aeruginosa</i> (ATCC #27853) ⁵	15 Sec	>6.23 (99.9999%)
	30 Sec	>6.23 (99.9999%)
	60 Sec	>6.23 (99.9999%)
14. <i>Pseudomonas aeruginosa</i> (ATCC #27853) ⁵	15 Sec	>5.00 (99.999%)
	30 Sec	>5.00 (99.999%)
	60 Sec	>5.00 (99.999%)
15. <i>Pseudomonas aeruginosa</i> (ATCC #15442) ^{2,3}	15 Sec	>5.00 (99.999%)
	30 Sec	>5.00 (99.999%)
	60 Sec	>5.00 (99.999%)
16. <i>Proteus mirabilis</i> (ATCC #7002) ⁵	15 Sec	>6.12 (99.9999%)
	30 Sec	>6.12 (99.9999%)
	60 Sec	>6.12 (99.9999%)
17. <i>Serratia marcescens</i> (ATCC #14756) ⁵	15 Sec	>6.12 (99.9999%)
	30 Sec	>6.12 (99.9999%)
	60 Sec	>6.12 (99.9999%)
18. <i>Salmonella enterica</i> (ATCC #10398) ³	60 Sec	>5.0 (99.999%)
19. <i>Salmonella typhimurium</i> ¹	15 Sec	>4.0 (99.99%)
20. <i>Staphylococcus aureus</i> (ATCC #6538) ^{3,7}	15 Sec	>6.76 (99.9999%)
	30 Sec	>6.76 (99.9999%)
	60 Sec	>6.76 (99.9999%)
21. <i>Staphylococcus aureus</i> (ATCC #29213) ^{4,5}	15 Sec	>6.11 (99.9999%)
	30 Sec	>6.11 (99.9999%)
	60 Sec	>6.11 (99.9999%)
22. <i>Staphylococcus epidermidis</i> (ATCC #12228) ⁵	15 Sec	>6.22 (99.9999%)
	30 Sec	>6.22 (99.9999%)
	60 Sec	>6.22 (99.9999%)
23. <i>Staphylococcus hominis</i> (ATCC #27844) ⁵	15 Sec	>6.21 (99.9999%)
	30 Sec	>6.21 (99.9999%)
	60 Sec	>6.21 (99.9999%)
24. <i>Staphylococcus haemolyticus</i> (ATCC #43253) ⁴	15 Sec	>5.00 (99.999%)
	30 Sec	>5.00 (99.999%)
	60 Sec	>5.00 (99.999%)
25. <i>Staphylococcus haemolyticus</i> (ATCC #29970) ⁵	15 Sec	>6.12 (99.9999%)
	30 Sec	>6.12 (99.9999%)
	60 Sec	>6.12 (99.9999%)

Micro-organism	Time (Seconds)	Log ₁₀ (%) Reductions
26. <i>Staphylococcus saprophyticus</i> (ATCC #35552) ⁵	15 Sec	>6.11 (99.9999%)
	30 Sec	>6.11 (99.9999%)
	60 Sec	>6.11 (99.9999%)
27. <i>Micrococcus luteus</i> (ATCC #7468) ⁵	15 Sec	>6.22 (99.9999%)
	30 Sec	>6.22 (99.9999%)
	60 Sec	>6.22 (99.9999%)
28. <i>Streptococcus pyogenes</i> (ATCC #19615) ^{3,7}	15 Sec	>6.03 (99.9999%)
	30 Sec	>6.03 (99.9999%)
	60 Sec	>6.03 (99.9999%)
29. <i>Enterococcus faecalis</i> (ATCC# 29212) ⁵	15 Sec	>6.01 (99.9999%)
	30 Sec	>6.01 (99.9999%)
	60 Sec	>6.01 (99.9999%)
30. <i>Enterococcus hirae</i> (ATCC #6057) ⁷	15 Sec	>6.76 (99.9999%)
	30 Sec	>6.76 (99.9999%)
	60 Sec	>6.76 (99.9999%)
31. <i>Streptococcus pneumoniae</i> (ATCC #6303) ⁵	15 Sec	>6.06 (99.9999%)
	30 Sec	>6.06 (99.9999%)
	60 Sec	>6.06 (99.9999%)
32. <i>Candida albicans</i> (ATCC# 10231) ⁶	15 Sec	>5.12 (99.999%)
	30 Sec	>5.12 (99.999%)
	60 Sec	>5.12 (99.999%)
33. <i>Aspergillus niger</i> (ATCC# 16404) ⁶	15 Sec	>5.44 (99.9995%)
	30 Sec	>5.44 (99.9995%)
	60 Sec	>5.44 (99.9995%)