

Soft&Shield[™] Hand Sanitizer

Efficacy: *Soft &Shield*[™] has been extensively tested for its effectiveness against many common pathogenic bacteria, yeasts, molds and viruses by several independent testing laboratories. A partial list of the microorganisms tested and their effectivity are shown below:

Table 1. Some Microorganism Killed by *Soft&Shield*[™]

Microorganism:	Contact Time Interval	Rapid Germicidal Time-Kill Results (% reduction)	Anti microbial Effectiveness Test (% reduction)
<u>Staphylococcus aureus</u> (MRSA)	1 minute	>99.99	>99.999 (14 days)
	5 minute	>99.99	>99.999 (28 days)
<u>Escherichia coli</u>	1 minute	>99.99	>99.999 (14 days)
	5 minutes	>99.99	>99.999 (28 days)
<u>Pseudomonas aeruginosa</u>	1 minute	>99.99	>99.999 (14 days)
	5 minutes	>99.99	>99.999 (28 days)
<u>Candida albicans</u>			>99.999 (14 days) >99.999 (28 days)
<u>Aspergillus niger</u>			>99.999 (14 days) >99.999 (28 days)
<u>Klebsiella pneumonia</u>	1 minute	>99.99	Not tested
	5 minutes	>99.99	
<u>Clostridium difficile</u>	1 minute	>99.99	Not tested
<u>Feline Calicivirus</u> (Norwalk virus)	2, 5 or 10 minutes	>99.2	Not tested

Persistence: Independent laboratory testing demonstrated that a single application of *Soft &Shield*[™] applied to human skin was effective up to **4 hours** in reducing colony forming units (CFU) of Staphylococcus aureus by greater than 90% (see Table below).

Statistical Comparisons of Average *S.aureus* CFU

Test Material	Time	Mean CFU	Material Control(P-Values)
S&S Antibacterial Hand Sanitizer	2 Hours	0.7	14.8 <0.0001
“ “ “	4 Hours	1.0	13.6 <0.0001

Safety: the following tests were performed satisfactorily by an independent testing laboratory:

1. Oral toxicity – passed stringent FDA standards (LD 50 > 5g/Kg).
2. Skin Irritation- passed Repeat Insult Patch Test, no adverse reactions reported (50 subjects).
3. Hypoallergenicity - passed Repeat Insult Patch Test, no potential for eliciting skin allergic reactions (200 subjects).