



## Superior defense against germs in a skin-friendly formula

In addition to superior efficacy, the ability of PURELL® Advanced Instant Hand Sanitizer to retain moisture and maintain skin health sets it apart from other hand sanitizers. We call it SKIN PROTECTION Technology. It's the ideal amount of alcohol plus a patent-pending blend of complementary ingredients that sensitizes microbial cells to the denaturing activity of ethanol and maximizes bacterial cell membrane destruction.

PURELL Advanced Instant Hand Sanitizer formulations are proven effective in helping to maintain skin health and skin moisture while improving overall skin feel. In fact, in a clinical study, four out of five healthcare workers said that PURELL Advanced Instant Hand Sanitizer Original formulations were soothing to their skin.<sup>6-8</sup>

It's also been clinically proven that PURELL Advanced Instant Hand Sanitizer Skin Nourishing formulations lock-in moisture<sup>6</sup> and are clinically proven to improve skin condition within 14 days of continued use.<sup>6-8</sup> Further, in a clinical study, four out of five healthcare workers said our skin nourishing formulations left their hands feeling soft.<sup>6-8</sup>

## Proven performance

PURELL Advanced Instant Hand Sanitizer has demonstrated efficacy and improved performance with repeated use. Third-party *in vitro* testing shows that PURELL Advanced Instant Hand Sanitizer achieves a 5-log<sup>10</sup> reduction against the most common hospital pathogens — including gram-positive and gram-negative bacteria. Our ability to formulate products that maximize the performance of the active ingredient ethyl alcohol results in better germ kill without skin damage.

### PURELL Advanced Formulations Performance Against Key Healthcare Pathogenic Bacteria

Microorganism Species (ATCC #)	Exposure	PURELL® Advanced IHS	PURELL® Advanced IHS Foam	PURELL® Advanced IHS Skin Nourishing Gel	PURELL® Advanced IHS Skin Nourishing Foam
	Time in Seconds	Percent Reduction	Percent Reduction	Percent Reduction	Percent Reduction
Acinetobacter baumannii (ATCC #19606)	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%
Candida albicans (ATCC #18804)	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%
Clostridium difficile vegetative cells (ATCC #9689)	15	> 99.9943%	> 99.9943%	> 99.9943%	> 99.9943%
Enterococcus faecalis VRE (ATCC #51299)	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%
Escherichia coli MDR; ESBL (ATCC #BAA-196)	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%
Escherichia coli ESBL Carbapenemase-Producing	15	> 99.9998%	> 99.9998%	> 99.9998%	> 99.9998%
Klebsiella pneumoniae KPC 2 Positive; Carbapenemase-Producing	15	> 99.9998%	> 99.9998%	> 99.9998%	> 99.9998%
Klebsiella pneumonia blaNDM-1	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%
Pseudomonas aeruginosa (ATCC #15442)	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%
Serratia marcescens (ATCC #8100)	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%
Staphylococcus aureus aureus MRSA (ATCC #33591)	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%
Staphylococcus aureus MRSA; VRSA (BSLI #062707NARSaVRSa1)CE	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%
Streptococcus pneumoniae (ATCC #6303)	15	> 99.9999%	> 99.9999%	> 99.9999%	> 99.9999%

Time Kill Study #091106-201, October 19, 2010, BioScience Laboratories, Bozeman, MT.  
Time Kill Study #110824-201, December 7, 2011, BioScience Laboratories, Bozeman, MT.

**Our SKIN PROTECTION Technology includes:**

**Skin Conditioning Agents —**  
A blend of four different conditioners that moisturize skin and continue to promote healthy skin with repeated use.

**A Safe and Effective FDA Category I Active Ingredient —**  
Formulated with 70% ethyl alcohol for more potent, broad-spectrum antimicrobial activity.

This perfect balance of alcohol and skin conditioning agents enables PURELL Advanced formulations to deliver an unprecedented level of antimicrobial efficacy while being kind to the skin.

**In Vitro Study**  
Measures rapid bactericidal action of products in the lab. Used to determine spectrum of activity of products.



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**Conclusion:**  
PURELL Advanced Instant Hand Sanitizer demonstrated very rapid and effective log reduction of gram-negative and gram-positive microorganisms. Therefore, it exhibits broad-spectrum antimicrobial efficacy.