

Nobact™

Instant Foam Hand Sanitizer

PHARMA-CLENZ®

Patent Pending Nobact™ Instant Foaming Hand Sanitizer produces a fast drying, non-sticky foam that contains unique non-drying, conditioning and moisturizing ingredients. **Nobact™ is an alcohol-free formulation.** It leaves the skin with a soft, silky afterfeel, and does not contain polymer thickeners or silicones.

Nobact™ Instant Foam Hand Sanitizer is based on the active ingredient Benzalkonium Chloride. The efficacy of this product has been confirmed to reduce *S. aureus* 99.999% in as little as 15 seconds.

Benzalkonium chloride based Hand Sanitizers have distinct advantages over gelled alcohol hand sanitizers. While both product forms are fast acting and allow for use without water or towels, benzalkonium chloride based products are non-flammable, less drying to skin, and will not stain clothing. Published studies report that gelled alcohol gel hand sanitizers actually make the skin dirtier, not cleaner due to removal of protective natural skin oils and entrapment of dead skin cells by the polymer thickeners used in the gelled alcohol products. Benzalkonium chloride is the only quat active ingredient with a history of use in leave-on, FDA Monograph anti-bacterial skin treatment products.

Typical Properties

Physical form.....	Clear light amber liquid
Benzalkonium chloride, active %	0.1
Assay (Epton), meq/mg.....	6.1 - 6.6
pH.....	5.5 - 7.0
Specific Gravity @25 C	1.00 0.02
Flash point (PMCC).....	>200°F (>93°C)

Handling Information

Refer to and follow the guidelines in the Material Safety Data Sheet (MSDS) available from Pharmacal Research Labs. for information on the safe use, handling and disposal of this product



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Nobact™ Final Summary Report
Time Kill Test Assay for Antimicrobial Agents

Test Organism	Exposure Time	Test Population Control CFU/mL*	Number of Survivors CFU/mL*	Log ₁₀ Reduction	Percent Reduction
<i>Staphylococcus aureus</i>	15 seconds	5.8 x 10 ⁶	1x10 ¹	6	>99.999%
	30 seconds		<2	>6.5	>99.9999%
	45 seconds		<2	>6.5	>99.9999%
	60 seconds		<2	>6.5	>99.9999%

Test Organism	Exposure Time	Test Population Control (CFU/mL)*	Number of Survivors (CFU/mL)*	Log ₁₀ Reduction	Percent Reduction
<i>Clostridium difficile</i>	15 seconds	3.4 x 10 ⁶	<2	>6.2	>99.9999%
<i>Enterococcus faecalis</i> Vancomycin Resistant	15 seconds	1.12 x 10 ⁶	3.2 x 10 ¹	4.54	99.999%
<i>Escherichia coli</i>	15 seconds	3.8 x 10 ⁶	4	6.0	99.999%
<i>Escherichia coli</i> O157:H7	15 seconds	1.26 x 10 ⁶	<2	>5.8	>99.999%
<i>Klebsiella pneumoniae</i>	15 seconds	1.10 x 10 ⁶	2	5.7	99.999%
<i>Pseudomonas aeruginosa</i>	15 seconds	3.5 x 10 ⁶	<2	>6.2	>99.9999%
<i>Salmonella typhi</i>	15 seconds	1.27 x 10 ⁶	2	5.8	99.999%
<i>Serratia marcescens</i>	15 seconds	1.81 x 10 ⁶	7.2 x 10 ¹	4.40	99.99%
<i>Streptococcus pneumoniae</i>	15 seconds	1.43 x 10 ⁵	2	4.85	99.99%
<i>Streptococcus pyogenes</i>	15 seconds	1.77 x 10 ⁶	<2	>5.9	>99.999%

* CFU/mL = Colony Forming Units per mL of test mixture