



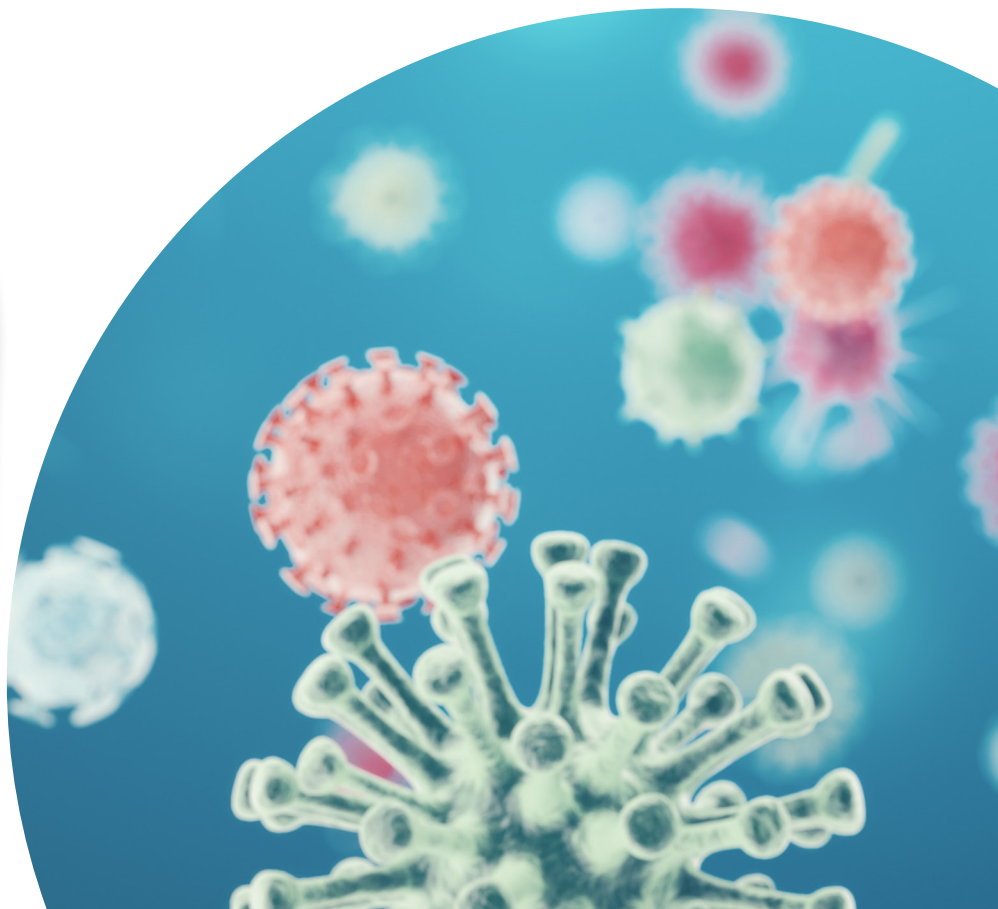
## FOAMING PERSISTENT 4-HOUR HAND SANITIZER

One of the most important keys to a good infection-control program is hand sanitation. Having a visible and convenient way for employees and customers to effectively sanitize their hands is key to controlling cross-contamination.

Our FDA-compliant, non-alcoholic, foaming hand sanitizer and moisturizer features a water-based formulation to rid hands of 99.99% of germs and bacteria that can cause illness. BioSpear™ hand sanitizer kills common germs that can cause illness in just 15 seconds. The bio-based, fragrance-free formulation is powered by Benzalkonium Chloride, a safe, powerful and effective antiseptic. Our hand sanitizer contains the same active BioSpear™ protection that is used in all of our products.



ITEM	DESCRIPTION	CASE QUANT.
BSHS 2	2 oz Foaming Hand San Bottle	24
BSHS 210	210 ml Foaming Hand San Bottle	12
BSHS 550	550 ml Foaming Hand San Bottle	12
BSHS-1	1 Gallon Refillable Hand San Bottle	4



# BIOSPEAR™ FOAMING PERSISTENT 4-HOUR HAND SANITIZER | TECHNICAL BRIEF

## Why use BioSpear™ Alcohol-Free Foaming Persistent Hand Sanitizer?

BioSpear™ Alcohol-Free Foaming Persistent Hand Sanitizer is dispensed as a thick foam and is formulated to reduce the number of microorganisms on the hands that can cause infection and illness. It is alcohol free, so that it can be used in any area without the fear of flammability. BioSpear™ Alcohol-Free Foaming Persistent Hand Sanitizer contains benzalkonium chloride, an effective antimicrobial agent against a large number of typical gram-positive and gram-negative bacteria. Use this sanitizer on clean, non-soiled hands anytime when rinsing with water is not available. Just 2 applications per day can provide up to 8 hours of bacteriostatic protection.

## How effective is BioSpear™ Alcohol-Free Foaming Persistent Hand Sanitizer?

BioSpear™ Alcohol-Free Foaming Persistent Hand Sanitizer was tested for antimicrobial efficacy in a time kill assay by an independent laboratory. The following data indicates a minimum of a log-three reduction after 15 seconds in vitro contact time.

**Active Ingredient:** Benzalkonium Chloride (.1%)

**Purpose:** Antimicrobial

**Uses:** Helps reduce bacteria that can cause disease. Helps prevent cross contamination by hand contact. Recommended for daily use.

**Warnings:** Keep out of reach of children. For external use only. Stop use and consult doctor if redness or irritation develops for more than 72 hours.

**Directions:** Apply appropriate amount of product onto palm of hand. Rub hands together until fully coated and dry. Use at least 2 times per day.

**Other information:** Store in a cool, dry place under 85 F.

**Inactive ingredients:** Water, Cetrimonium Chloride, Laurtrimonium Chloride, Dihydroxyethyl Oxide, Glycereth-17 Cocoate, Citric Acid.

Made in the United States for Biospear and distributed worldwide by Contego America, Houston, Texas.  
www.biospear.com

CHALLENGE MICROORGANISM	ATCC #	Log10 Reduction	Percent Reduction
Acinetobacter baumannii	19606	>5.65	>99.999%
Enterococcus faecalis Vancomycin Resistant	51575	>5.46	99.999%
Escherichia coli	11229	5.23	99.999%
Escherichia coli O157:H7	35150	5.22	99.999%
Klebsiella pneumoniae	4352	2.44	99.6%
Listeria monocytogenes	19117	>5.58	>99.999%
Pseudomonas aeruginosa	15442	>5.51	>99.999%
Salmonella enteritidis	4931	>5.69	>99.999%
Salmonella enterica serotype paratyphi B	8759	5.38	>99.999%
Salmonella enterica serotype pullorum	19945	5.12	99.999%
Salmonella enterica serotype typhimurium	23564	>6.02	>99.9999%
Salmonella typhi	6539	>5.54	>99.999%
Shigella dysenteriae	13313	>5.48	>99.999%
Shigella flexneri	12022	4.45	>99.99
Shigella sonnei	25931	>5.07	>99.999%
Staphylococcus aureus	6538	3.83	>99.9%
Staphylococcus epidermidis	12228	>5.25	>99.999%
Vibrio cholera	11623	>4.47	>99.99%
Yersinia enterocolitica	23715	5.74	>99.999%
Klebsiella pneumonia NDM - 1 positive CDC 1000527 ("New Dehli" superstrain)		>5.64	>99.9999%
Staphylococcus aureus Community Associated (MRSA)		>5.40	>99.999%