

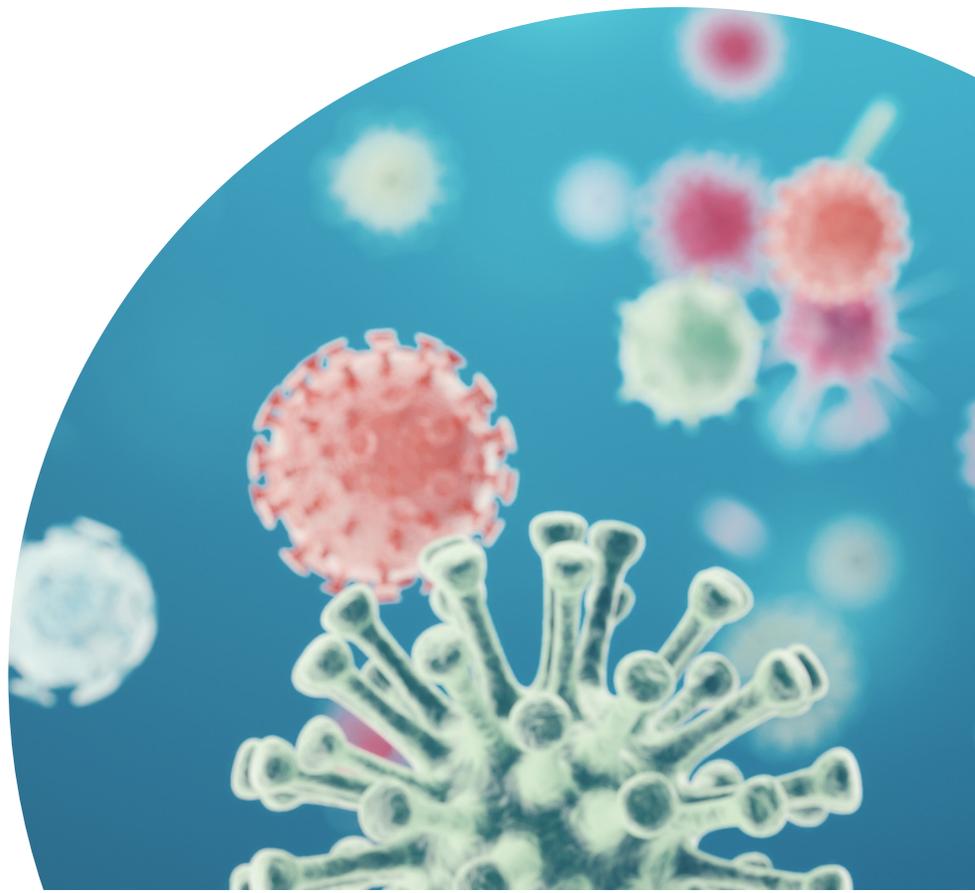
## FOAMING PERSISTENT 4-HOUR HAND SANITIZER

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 1000	1000 ml Foaming Hand Refill Bag	4
BSHS WD	1000 ml Hand San Wall Dispenser	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 indicate 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](http://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 Delhi" superstrain)		>5.64	>99.9999%
Staphylococcus aureus Community Associated (MRSA)		>5.40	>99.999%



## BACTERIOSTATIC SANITIZING WIPES

The hardest part about cleaning is actually doing it. People get busy. Surfaces get dirty. We know. That's why we developed our wipes.

BioSpear™ Bacteriostatic Sanitizing wipes easily and effectively clean and sanitize surfaces, utilizing our safe and effective bactericidal formulation. At the same time, BioSpear™ wipes leave behind a persistent bacteriostatic barrier that inhibits the growth and colonization of bacteria on hard surfaces. Even if you miss a day, BioSpear™ has you covered.

Our wipes are a new way to clean and apply our technology conveniently and quickly, with only one step, zero hassle and persistent action.



ITEM	DESCRIPTION	CASE QUANT.
BBSW 75	75 ct Softpack Wipes	24
BBSW 100	100 ct Softpack Wipes	24



## BIOSPEAR™ BACTERIOSTATIC SANITIZING WIPES | PRODUCT INFORMATION

BioSpear™ Bacteriostatic Sanitizing Wipes are a quaternary ammonium based sanitizing wet wipe for use on hard non-food contact surfaces. These wipes are suitable for use on all hard surfaces as a household or commercial sanitizing wipe.

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### CHEMICAL AND PHYSICAL CHARACTERISTICS

**Active Ingredient:** 3(trihyoxysilyl)propyldimethloctadecyl ammonium chloride.....0.54%  
1-Decanaminium, N-dicyl-N,N-dimethyl-chloride.....0.90%

**Appearance:** Clear liquid. White wipe material substrate.

**pH Value:** 6.5-7.0

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### BIOCIDAL PROPERTIES

BioSpear™ Bacteriostatic Sanitizing Wipes provide a broad spectrum 99.99% kill against bacteria. It has bacteriostatic properties allowing it to inhibit and prevent the further growth of bacteria.

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### APPLICATION

BioSpear™ Bacteriostatic Sanitizing Wipes can be a daily use sanitizing wipe and are suitable for use in the following environments: Household, offices, doctors offices, athletic facilities, schools, automotive, aircraft, daycares, nursing homes, correctional facilities, salons, laundry rooms, pet areas or anywhere that bacteria are an issue. Full effectiveness of BioSpear™ is typically achieved after approximately 3-4 applications. Remove wipe from package and wipe down surface as with any typical wet wipe. Allow surface to air dry completely .

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### PACKAGING/STORAGE/REGULATORY APPROVALS

**Packaging:** 50ct (EU) 75ct, 100ct, 150ct (US) softpack HDPE resealable packaging.

**Shelf Life:** 12 months

**Availability:** In stock for standard orders. Private label orders run on MOQ.

**Storage:** Store in original sealed packaging to prevent liquid evaporation. Do not reuse packaging. Store at room temperature, 70-85 deg F.

**Regulatory Approvals:** EPA Registered. EU Registered. Different biocidal claims in effect for different countries. Please visit biospear.com for more information.

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### SAFETY/TOXICITY

**Acute Eye:** Category IIB – Moderately Irritating.

**Acute Dermal:** Category IV- Non Irritating.

**Acute Oral:** LD50 greater than 5000 mg/kg.

**Acute Skin:** Category IV- Non Sensitizing.

## BACTERIOSTATIC SANITIZING SPRAY

When the typical cleaners and sanitizing sprays dry, they are done! They stop working as soon as they dry on the surface. BioSpear™ isn't typical. Once BioSpear™ dries, it **KEEPS ON WORKING**, dealing with bacteria by using an invisible persistent bacteriostatic barrier that inhibits the growth of bacteria. No matter if it's a countertop, changing table, or door handle.

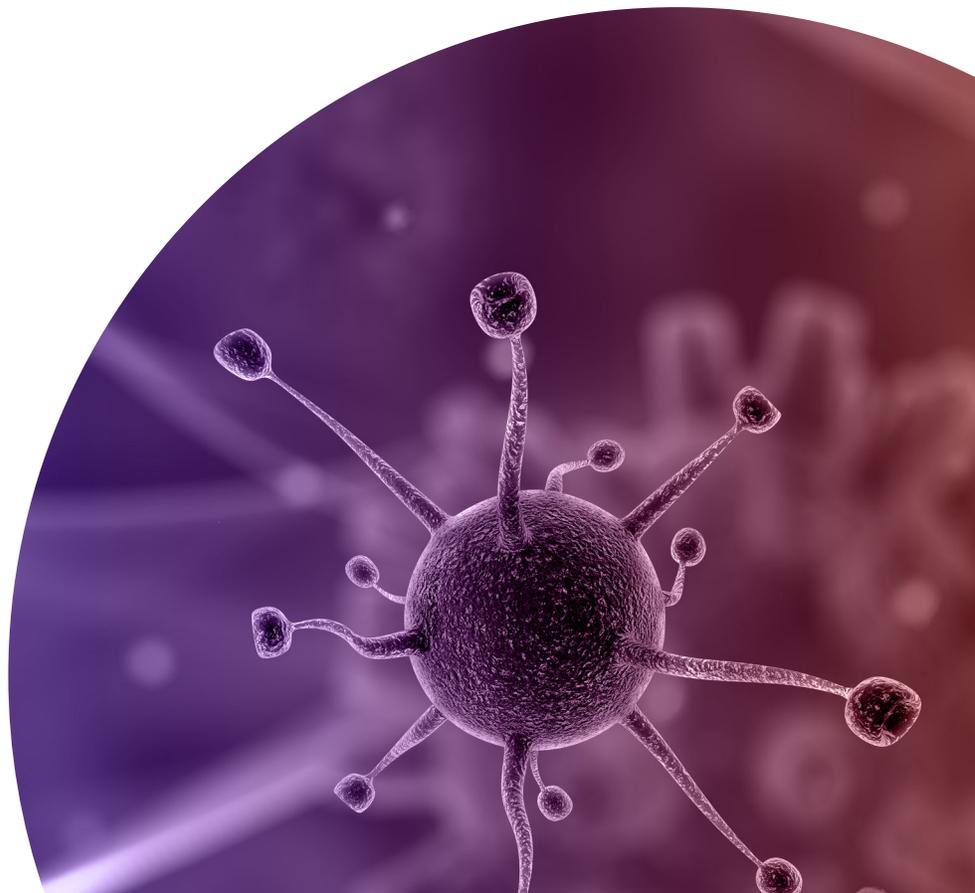
BioSpear's range of sprays and wipes are designed for every application. We have you covered.

BioSpear™ Sanitizing Spray is a single solution for cleaning virtually any hard surface. In one spray, you can clean and sanitize surfaces, while simultaneously applying the powerful barrier to inhibit microbes from colonizing and reproducing on the surface.



Coming In  
November  
2019!

ITEM	DESCRIPTION	CASE QUANT.
BBSS 10	10 oz Flarisol Spray	24
BBSS 16	16 oz Spray	12
BBSS32	32 oz Spray	12



## **BIOSPEAR™ BACTERIOSTATIC SANITIZING SPRAY | PRODUCT INFORMATION**

BioSpear™ Bacteriostatic Sanitizing Spray is a quaternary ammonium based sanitizing liquid for use on hard non-food contact surfaces. This spray is suitable for use on all hard surfaces as a household or commercial sanitizing spray.

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### **CHEMICAL AND PHYSICAL CHARACTERISTICS**

**Active Ingredients:** 3(trihyoxysilyl)propyldimethoctadecyl ammonium chloride.....0.54%  
1-Decanaminium, N-dicyl-N,N-dimethyl-chloride.....0.90%

**Appearance:** Clear liquid.

**pH Value:** 6.5-7.0

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### **BIOCIDAL PROPERTIES**

BioSpear™ Bacteriostatic Sanitizing Spray provides a broad spectrum 99.99% kill against bacteria. It has bacteriostatic properties allowing it to inhibit and prevent the further growth of bacteria.

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### **APPLICATION**

BioSpear™ Bacteriostatic Sanitizing Spray can be a daily use sanitizing liquid and is suitable for use in the following environments: Household, offices, doctors offices, athletic facilities, schools, automotive, aircraft, daycares, nursing homes, correctional facilities, salons, laundry rooms, pet areas or anywhere that bacteria are an issue. Full effectiveness of BioSpear™ is typically achieved after approximately 3-4 applications. Point nozzle away from face and spray surface until fully wet as with any typical sanitizing spray. Allow surface to air dry completely .

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### **PACKAGING/STORAGE/REGULATORY APPROVALS**

**Packaging:** 10oz, 16oz, 32oz, 1 gallon. (US)

**Shelf Life:** 12 months

**Availability:** In stock for standard orders. Private label orders run on MOQ.

**Storage:** Flarisol packaging is refillable. Store at room temperature, 70-85 deg F.

**Regulatory Approvals:** EPA Registration pending. EU Registered. Different biocidal claims in effect for different countries. Please visit biospear.com for more information.

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### **SAFETY/TOXICITY**

**Acute Eye:** Category IIB – Moderately Irritating.

**Acute Dermal:** Category IV- Non Irritating.

**Acute Oral:** LD50 greater than 5000 mg/kg.

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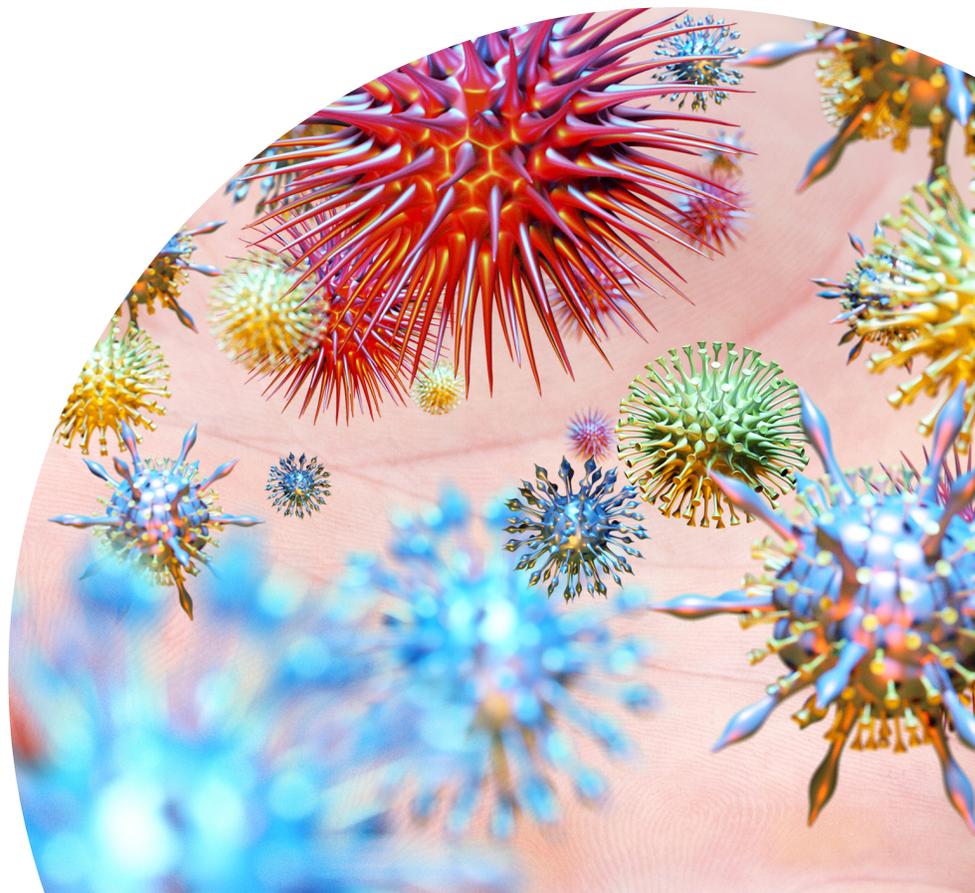
## ANTIMICROBIAL SURFACE PROTECTANT

BioSpear™ liquid antimicrobial treatments are a safe and effective way to protect virtually any surface with a micro biostatic barrier that inhibits the growth of bacteria. By mobilizing the BioSpear™ molecule in a ready-to-use liquid, almost anyone can lay down a bacteriostatic barrier that continues working long after it dries on a surface. With its unique method of efficacy, BioSpear™ Antimicrobial Protectant will reduce the instances of microbial contamination by making a surface inhospitable for colonization.

BioSpear™ Antimicrobial Protectant easily and effectively protects surfaces even if you miss a day, or even a week of sanitizing. BioSpear™ antimicrobial protectants have you covered.

With easy to use foggers, electrostatic sprayers or just a misting or spray bottle, BioSpear™ can be applied to a clean, sanitized surface for persistent, long-term protection.

ITEM	DESCRIPTION	CASE QUANT.
BSMP RTU 1	1 gal. RTU Antimicrobial Protectant	4
BSMP RTU 15	15 gal. RTU Antimicrobial Protectant	1



# BIOSPEAR™ ANTIMICROBIAL BIOSTATIC SURFACE PROTECTANT | TECHNICAL BRIEF

## Why use BioSpear™ Antimicrobial Biostatic Surface Protectant?

BioSpear™ antimicrobial surface protectant is an EPA-registered microbiostatic agent designed to help protect a variety of surfaces from the colonization of bacteria, mold and mildew.

**Active Ingredient:** 3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride (0.84%)

**Other ingredients:** (99.16%)

**Total ingredients:** (100%)

**Warnings:** Keep out of reach of children.

See below for additional precautionary statements.

BioSpear™ protectant is a water based formulation that can be applied to virtually any clean porous or non-porous surface by spraying, wiping, dipping or brushing. Once dried, BioSpear™ is durable, non-leaching, non-gassing, non-toxic and is effective against a wide variety of microbial contaminants. After applying BioSpear™ to a clean surface, let dry at room temperature. In some cases it may be necessary to initially apply BioSpear™ twice. If needed, reapply BioSpear™ every 60-90 days. BioSpear™ treats approximately 200 square feet per gallon.

Although BioSpear™ is a durable treatment, surface scrubbing and abrasion will remove the technology from a treated surface. In areas of high activity or frequent abrasion, it is recommended that you apply BioSpear™ more frequently. When correctly applied, BioSpear™ Surface Protectant is effective in inhibiting the colonization of the following microorganisms:

### VIRUSES

Adenovirus Type II & IV  
Herpes Simplex Type II  
Influenza B  
Reovirus Type 1  
PRD1

Bovine Adenovirus Type I & IV  
HIV-1 (AIDS)  
Mumps  
Simian Virus 40

Feline pneumonitis  
Influenza A2 (Aichi)  
Parinfluenza (Sendai)  
Vaccinia

Herpes Simplex Type I  
Influenza A2 (Asian)  
Rous Sarcoma  
MS2

### GRAM POSITIVE BACTERIA

Bacillus sp. (vegetative cell)  
Mycobacterium tuberculosis  
Staphylococcus epidermis  
Streptococcus pyogenes

Corynebacterium diptheriae  
Mycobacterium smegmatis  
Streptococcus faecalis

Micrococcus lutea  
Propionibacterium acnes  
Streptococcus mutans

Micrococcus sp.  
Staphylococcus aureus  
Streptococcus pneumonia

### GRAM NEGATIVE BACTERIA

Serratia marcescens  
Cibrobacter deversus  
Enterbacter cloacae  
Klebsiella terriena  
Proteus vulgaris  
Salmonella typhi

Anthomonas campestris  
Citrobacter freundii  
Enterococcus  
Legionella pneumophila  
Pseudomonas aeruginosa  
Salmonella typhimurium

Acinetobacter calcoaceticus  
Enterobacter aerogenes  
Escherichia coli  
Morganella morgani  
Pseudomonas fluorscens  
Serratia liquefaciens

Aeromonas hydrophilia  
Enterbacter agglomerans  
Klebsiella pneumoniae  
Proteus mirabilis  
Salmonella cholera suis

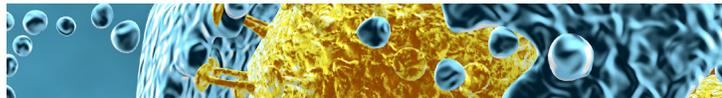
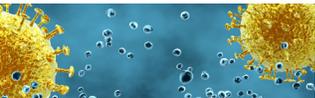
### FUNGI, ALGAE, MOLD YEAST, SPORES

Alterania alternate  
Aspergillus syndowii  
Aureobasidium pullans  
Cladosporium cladosporioides  
Gilomastix cerealis  
Monilia grisea  
Penicillium funiculosum  
Pithomyces chartarum  
Scoleobasidium humicola  
Trichophyton maidson

Alphanizomenon sp.  
Aspergillus terreus  
Candida albicans  
Chlorella vulgaris  
Gloeophyllum trabeum  
Oscillatoria  
Penicillium pinophilum  
Poria placenta  
Selanastrum sp.  
Trichophyton mentogrophytes

Aspergillus flavus  
Aspergillus versicolor  
Candida psudotropocalis  
Dreschlera australiensis  
Microsporium sp.  
Penicillium chrysogenum  
Penicillium variable  
Scenedesmus  
Trichoderma viride  
Trichophyton sp.

Aspergillus niger  
Aspergillus verrucaria  
Chaetomium globson  
Epidermophyton sp  
Microsporium audouinii  
Penicillium commune  
Phoma fimeti  
Saccaronyces cerevisiae  
Trichophyton interdigitale



## FULL-BODY CLEANSING WIPES

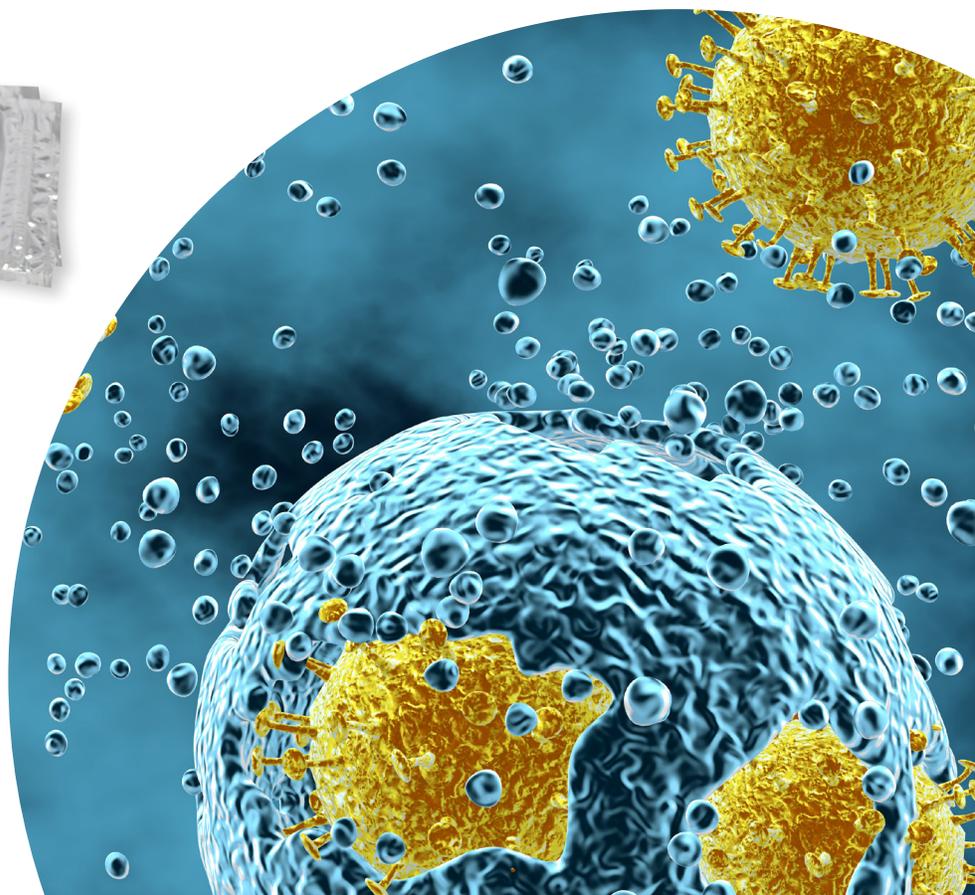
BioSpear™ Full Body Cleansing Wipes were developed for advanced hygiene in challenging environments when showering or bathing is not an option.

Our alcohol-free, full body cleansing wipe features a water-based formulation to clean and eliminate 99.99% of skin-based, odor-causing bacteria in just 15 seconds. The bio-based, fragrance-free formulation is powered by Benzalkonium Chloride; a safe, powerful and effective antiseptic. Our full body wipes also contain coconut extract and witch hazel to sooth skin and prevent dryness.

BioSpear™ Full Body Cleansing Wipes leave no sticky residue on skin, and are the gentlest, rinse-free way to clean when traditional bathing is not an immediate option. Each thick, extra large body wipe can easily clean the entire body.



<b>ITEM</b>	<b>DESCRIPTION</b>	<b>CASE QUANT.</b>
BSSBW-10	Body Wipe 20 ct. Individual Wipe	24
BSSBW-50	Body Wipe 50 ct. Soft Pack	12



## BIOSPEAR™ FULL BODY CLEANSING WIPES | PRODUCT INFORMATION

### Why use BioSpear™ Full Body Cleansing Wipes?

BioSpear™ Full Body Wipes are formulated to clean, sanitize, soothe and protect skin. Our body wipes contain benzalkonium chloride; an effective antimicrobial agent against odor-causing bacteria. For advanced hygiene in the most challenging environments, use these wipes whenever a shower or bath is not an option.

### How effective are BioSpear™

#### Full Body Cleansing Wipes?

The active ingredient of BioSpear™ Full Body Cleansing Wipes 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:** Decreases bacteria on skin.

**Warnings:** For external use only. Do not use if you are allergic to any of the ingredients.

When using this product, avoid contact with eyes. If eye contact occurs, flush eyes with water immediately. If irritation persists for more than 24 hours, consult a doctor. If skin irritation or rash appears, stop use and consult a doctor.

**Directions:** Tear open package and remove wipe. Keep wipe folded and use as you would a wash cloth. Unfold wipe as you go so that you have a clean side for each part of the body. Allow skin to air dry. Do not flush wipe. Dispose in trash.

**Inactive ingredients:** Water, Witch Hazel, Cetrimonium Chloride, Citric Acid, Cocamine Oxide, Glycereth-17, Laurtrimonium Chloride.

CHALLENGE MICROORGANISM	ATCC #	LOG10 REDUCTION	% 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 0157: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	>5.64	>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 1000527 ("New Delhi" superstrain)		>5.64	>99.9999%
Staphylococcus aureus Community Associated (MRSA)		>5.40	>99.999%



## SPORTS ODOR PROTECTANT

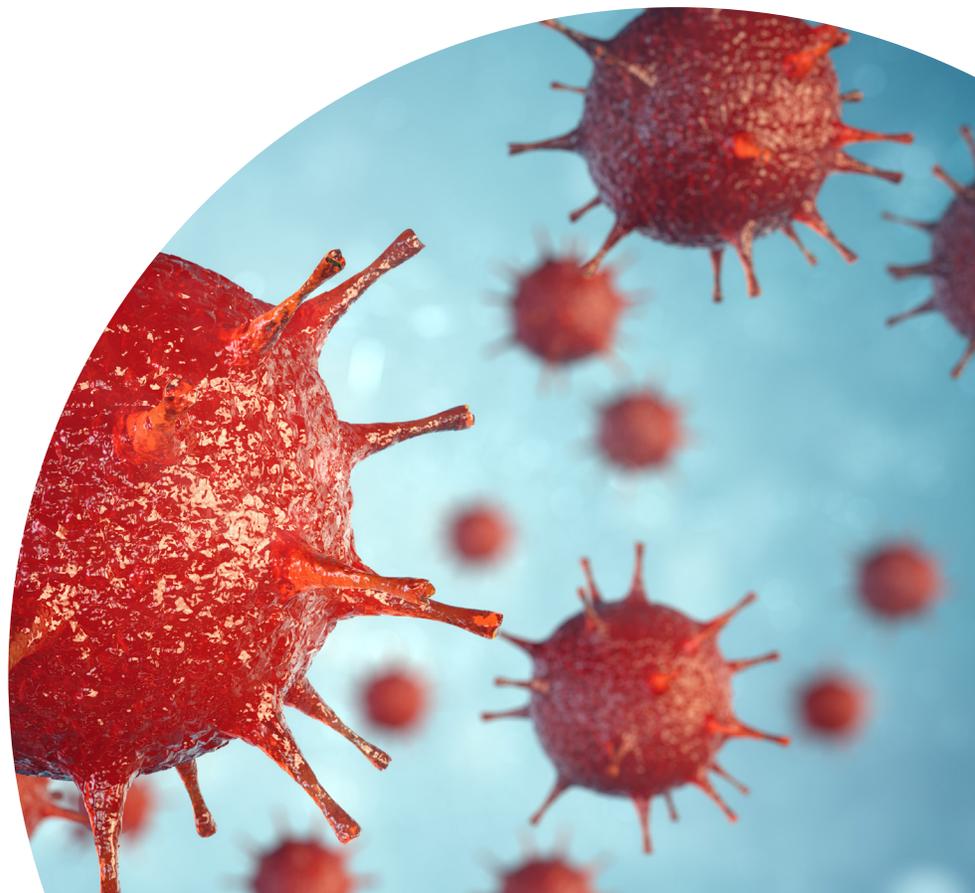
BioSpear™ Sports Protectant is the most effective way to **NEUTRALIZE, ELIMINATE** and **PREVENT** all sports-related odors on contact!

Sports environments are a virtual breeding ground for all types of odor-causing bacteria. Equipment, uniforms and facilities develop a distinct odor that every coach and athlete knows well. With BioSpear™ Sports Odor Protectant, you can easily and inexpensively eliminate and protect your athletic environment and gear from these microorganisms and inhibit their growth.

BioSpear™ Sports Odor Protectant can be used on gear, uniforms and virtually any facility surface. BioSpear™ works on all sports-related odors on contact by not only neutralizing odor-causing bacteria but preventing them from coming back!



ITEM	DESCRIPTION	CASE QUANT.
BSSP 10	10 oz Sports Spray	24
BSSP 32	32 oz. Sports Spray	12
BSSPR 1gal	1gal Ready to Use Sports Spray	4



## **BIOSPEAR™ SPORTS ODOR PROTECTANT | PRODUCT INFORMATION**

BioSpear™ Sports Odor Protectant Spray is a quaternary ammonium based liquid for use on hard or soft surfaces. This spray is suitable for use on athletic gear and surfaces as an odor neutralizing and prevention treatment.

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### **CHEMICAL AND PHYSICAL CHARACTERISTICS**

**Active Ingredients:** 3(trihyoxysilyl)propyldimethloctadecyl ammonium chloride.....0.54%  
Decanaminium, N-dicyl-N,N-dimethyl-chloride.....0.90%

**Appearance:** Clear liquid.

**pH Value:** 6.5-7.0

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### **BIOCIDAL PROPERTIES**

BioSpear™ Sports Odor Protectant Spray neutralizes, eliminates and prevents the growth of odor-causing bacteria on athletic gear and related surfaces.

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### **APPLICATION**

BioSpear™ Sports Odor Protectant Spray can be used daily or weekly and is suitable for use in the following environments: athletic facilities, schools, athletic bathrooms, athletic laundry, athletic lockers, athletic gear such as gloves, uniforms, shoes, pads, helmets and virtually any other athletic gear. Full effectiveness of BioSpear™ is typically achieved after approximately 3-4 applications. Point nozzle away from face and spray surface until fully wet as with any typical sanitizing spray. Allow surface to air dry completely.

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### **PACKAGING/STORAGE/REGULATORY APPROVALS**

**Packaging:** 10oz., 32oz., 1 gallon. (US)

**Shelf Life:** 12 months

**Availability:** In stock for standard orders. Private label orders run on MOQ.

**Storage:** Flarisol packaging is refillable. Store at room temperature, 70-85 deg F.

**Regulatory Approvals:** N/A Please visit biospear.com for more information.

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### **SAFETY/TOXICITY**

**Acute Eye:** Category IIB – Moderately Irritating.

**Acute Dermal:** Category IV- Non Irritating.

**Acute Oral:** LD50 greater than 5000 mg/kg.

**Acute Skin:** Category IV- Non Sensitizing.