



- **NON** - TOXIC
- **NO** ALCOHOL
- **NO** BLEACH
- **NO** RESIDUE
- **NON** - CARCINOGENIC
- **NON** - SCENTED
- **NON** - CORROSIVE
- **100%** BIODEGRADABLE

DESTROYS
99.9%
Under 30 Secs
*KILLS COVID-19

- VIRUSES
- BACTERIA
- MOLD
- FUNGUS
- ALGAE



MEDICAL INSTITUTIONS

Product name: BIOTECplus Total Disinfection

Product class: Disinfectant- Sanitizer

DESCRIPTION - QUATERNARY DISINFECTANT CLEANER is a concentrated, cost-effective germicide based on a blend of quaternaries and surfactants. It cleans, disinfects, and deodorizes with a neutral pH in dilution.

Product Composition and usage

Name	CAS#	TLV/PEL	%weight
N-Alkyl Dimethyl Benzyl Ammonium Chloride	85409-22-9	N/A	1
N-Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride	8001-54-5	N/A	1
Water	7732-18-5	N/A	98

BIOTECplus it is a powerful disinfectant that inhibits bacteria, fungi, algae, and viruses in the same application. It is broad spectrum, fast acting and has a prolonged action.

General Characteristic:

1. 100% Biodegradable
2. It is effective in the presence of organic matter
3. Non flammable
4. Stable PH 3 to 11.
5. It does not lose its properties in the presence of ultraviolet rays.
6. Odorless, colorless, slightly bitter taste.
7. You do not need gloves or a mask for its use.
8. Non-toxic, it is not absorbed through the skin nor cause sensitization or irritation(Non systemic)
9. It does not emanate fumes or toxic gases.
10. It is not carcinogenic.(manufactured and used 14+ years)
11. 100% Safe for humans.
12. Effective against different types of microorganisms in the same application(certified against Human Corona)



YBMS Biotec Ltd.

#2 Todds Road, Upper Carapichaima,
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BIOTECplus is a "Biodegradable" compound that effectively controls: Gram (+) and gram (-) bacteria, fungi, algae and viruses; it is non-toxic, non-irritating to the skin; It has no corrosive effects on metals or other materials such as natural or synthetic rubber, plastics and polyethylene; It has effective action in the presence of organic matter (pus, blood, urine, feces); acts in hard water up to 550 ppm CaCO₃ and temperatures up to 80 ° C. It acts in solutions with PH ranges from 3 to 11 and its residual effect may last from 3 to 5 days. Thirty days in isolated areas.

It is recommended for complete disinfection of floors, walls, countertops, bathing areas, laboratories, bedframes, tables, chairs, garbage pails and other hard nonporous surfaces in hospitals, nursing homes and other health care institutions.

Critical and semi-critical items, such as objects and surgical instruments that eventually will encounter tissues and organs can also be disinfected.

MECHANISMS

BIOTECplus action includes physical and chemical processes through its positively charged (cations) neutralizing the negatively charged (anions) cell wall of the microorganisms given by the presence of phospholipids. This neutralization allows **BIOTECplus** adhesion and penetration of the microorganism cell wall.

Subsequently altering the permeability of the cell membrane of the microorganism. This alteration causes loss of essential elements, chemical and morphological enzymes, and protein denaturation.

Finally, through plasmolysis, total precipitation of cytoplasmic contents, including cell membrane and nucleus, leave the cell unable to survive, replicate or generate a resistant offspring by genetic mutation.

This mechanism of action prevents the creation of resistance of microorganisms to **BIOTECplus**

Unlike traditional germicides, **BIOTECplus** has a surfactant component that reduces the surface tension of solutions, allowing these to penetrate cavities, cracks, and porosities, achieving complete disinfection.



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Control Measures

Where BIOTECplus fits in with your protocol

CLINICS AND HOSPITALS	
AREAS	APPLICATION
Sterilization of anesthesia equipment, respiratory therapy, surgical instruments, optical, dental, thermometer, plastic objects.	Immersion of tools, 15 minutes. Air dry and can be used immediately. Use pure solution.
Disinfection of intensive care rooms, operating and delivery rooms, surgery room, emergency rooms, Infectious disease rooms and non-contagious areas	Apply with electrical Sprayer or fogger after cleaning. Use pure solution. Allow to dry or wait 15 minutes
Disinfection of kitchens, tables, utensils, floors, walls, storage rooms.	Use pure solution, fogging and spraying in cleaned all areas. Let dry.
Disinfection of clothes, blankets, and other garments.	Apply at final rinse. Use pure solution.
Applications in siphons and pipes.	Add pure solution.

LABORATORIES	
AREAS	APPLICATION
Disinfection of production areas and safety zones.	Spray or mist floors walls and ceilings. Use pure solution. Let dry.
Disinfection of equipment	Solution. Spraying or fogging. Let dry.
Lab ware (plastic, rubber, glass).	Immerse in solution for 15 minutes. Let dry
HIV/ hepatitis area, Incubators Observation beds Stretchers/handrails Sinks, Bathrooms, Cold room refrigerators	Solution. Spraying or fogging 15 min. Let dry.
Hand disinfection. (Use Sprayer) and allow to air dry.	Solution, works on contact



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BIOTECplus controls Gram (+) and Gram (-) Bacteria, Algae, Fungi and Viruses

GRAM POSITIVE BACTERIA	GRAM NEGATIVE BACTERIA	GRAM NEGATIVE BACTERIA
Bacillus megaterium	Aeromonas hydrophila	Salmonella enteritidis
Bacillus subtilis	Alcaligenes Faecalis	Salmonella choleraesuis
Rhodococcus erythropolis	Agrobacterium tumefaciens	Salmonella galinarum
Brevibacterium linens	Azospirillum brasilense	Salmonella typhimurium
Corynebacterium glutamicum	Bordetella avium	Salmonella typhi
Lactobacillus plantarum	Brevundimonas diminuta	Salmonella paratyphi A
Lactobacillus rhamnosus	Burkholderia cepacia	Salmonella paratyphi B
Mycobacterium smegmatis	Enterobacter aerogenes	Salmonella pullorum
Mycobacterium tuberculosis	Escherichia coli	Rhizobium etli
Staphylococcus aureus		Serratia entomophila
Streptomyces lividans	Burkholderia gladioli	
Bacillus subtilis	Burkholderia vietnamsensis	Shigella flexneri
Bacillus megaterium	Brucella intermedia	Variovorax paradoxus
Bacillus Cereus	Brucella abortus	
Bacillus Cereus var. Mycoides	Brucella melitensis	Vibrio harveyi
Clostridium botulinium	Brucella suis	Vibrio cholerae
Clostridium tetani	Chromobacterium violaceum	Vibrio elta
Propionibacterium acnes	Citrobacter freundii	Xanthomonas axonopodis
Corynebacterium diphtheriae	Enterobacter aerogenes	pv. manihotis LMG 784
Crynebacterium minutissium	Enterobacter cloacae	Xanthomonas alfalfae
Streptococcus pneumoniae	Erwinia amylovora	pv. alfalfae LMG 497
Lactobacillus Arabinosus	Erwinia carotovora	Yersinia enterocolitica LMG 7899
Lactobacillus casei	Haemophilus influenza	
Listeria Monocytogenes	Klebsiella edwardsii	FUNGI and YEAST
Mycobacterium tuberculosis	Klebsiella aerogenes	Aspergillus niger
Mycobacterium smegmatis	Klebsiella pneumoniae	Aspergillus fumigatus
Mycobacterium Phlei	Legionella pneumoniae	Candida albicans
Sarcina Lutea	Loefflerella pseudomallei	Epidermophyton floccosum
Sarcina Ureae	Moraxella duplex	Keratinomyces ajelloi
Staphylococcus aureus	Moaxella glucidolytica	Monilia albicans
Staphylococcus albus	Neisseria catarrhalis	Saccharomyces cerevisiae
Staphylococcus agalactiae	Burkholderia capacia	Trichophyton mentagrophytes
Staphylococcus hemoliticus	Pasteurella séptica	Trichophyton rubrum
Staphylococcus fecalis	Pasteurella pseudotuberculosis	Trichophyton tonsurans
Staphylococcus pyrogenes	Proteus vulgaris	
Staphylococcus viridians	Pseudomonas aeruginosa	
	Pseudomonas entomophila	
	Pseudomonas fluorescens	
	Pseudomonas putida	
	Pseudomas syringae pv. tabaci	



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EFFECTIVENESS OF THE PRODUCTS AGAINST NATIVE REFERENTIAL BACTERIA STRAINS ENTEROPATHOGENIC AND RESPIRATORY

Enteropathogenic Bacteria	Respiratory Bacteria
Escherichia coli	Escherichia coli
Klebsiella spp.	Pasteurella multósida
Staphylococcus aureus	Bordetella avium
Salmonella spp.	Ornitobacterium rinotracheale
Pseudomona spp.	Aviabacterium paragallinarum

START OF ACTION AND RESIDUAL POWER

PRODUCT	1		2		3		4		5	
	HOURS	PR	HOURS	PR	HOURS	PR	HOURS	PR	HOURS	PR
BIOTECplus	0	>30 days	0	>30 days	0	>30 days	0	>30 days	0	>30 days
PRODUCT	6		7		8		9		10	
	HOURS	PR	HOURS	PR	HOURS	PR	HOURS	PR	HOURS	PR
BIOTECplus	0	>30 days	0	>30 days	0	>30 days	0	>30 days	0	>30 days

HOURS: Start of Bacterial Inhibition

PR: Residual Power, greater than 30 days

Numbers: Enteropathogenic and Respiratory Bacterial Strains

METHOD: TURBIDOMETRY



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Benefits of BIOTECplus

BIOTECplus is tested safe and effective against extreme pathogens existing in medical facilities. The product allows fast turnovers in each department (sanitizer, 15 seconds – disinfectant, 15 min), taking the place of numerous individual cleaners and thus allowing greater efficiency, safer environments, and cost savings to the establishments. The NON-toxic, Biodegradable, Biomedically standardized disinfectant and sanitizer is safe for human contact, is non-abrasive, non-corrosive and is certified internationally.

BIOTECplus is tested at the Microchem laboratory, Texas USA
 ISO 17025 Accredited and GLP Compliant Laboratory
 Microchem maintains compliance with EPA and FDA Good Laboratory Practices
 BIOTECplus is manufactured using EPA certified active ingredients

Study Title	Test Method
Antibacterial Activity and Efficacy of BIOTECplus Test Substance for use in medical institutions	Modified AOAC Official Method 960.09 Germicidal and Detergent Sanitizing Action of Disinfectants Study Identification Number NG11206
Pseudomonas aeruginosa (bacteria)	NG11206
Staphylococcus aureus (MRSA- bacteria)	NG11409
Escherichia coli (bacteria)	NG11332
Trichophyton interdigitale (fungus)	
Human Coronavirus	ASTM E1053, Standard Test Method to Assess Virucidal Activity of Chemicals Study Identification Number NG14878

Key

MRSA- Methicillin resistant Staphylococcus aureus

Test Facility

Microchem Laboratory, 1304 W. Industrial Blvd
 Round Rock, TX 78681
 (512) 310-8378

*See MSDS and certificates for verification



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Microchem maintains ISO 17025 accreditation through ANSI National Accreditation Board (ANAB). Accreditation provides our clients with additional confidence in the laboratory's quality system and technical competence. In addition to ISO 17025 accreditation, Microchem maintains compliance with EPA and FDA Good laboratory practices (GLPs)

Microchem's current scope of accreditation includes the following standards

- AAMI TIR12- Disinfection Validation- designing, Testing and Labelling Reusable Medical Devices for Reprocessing in Healthcare Facilities: A Guide for Medical device Manufacturers.
- AAMI TIR30- Cleaning Validation- A compendium of processes, materials, test methods, and Acceptance Criteria for Cleaning Reusable Medical Devices
- ISO 11930- Evaluation of the Antimicrobial Protection (Preservation) of Cosmetic Products

This article was created by the manufacturer's YBMS Biotec Ltd. in conjunction with tests carried out using BIOTECplus against respective pathogens existing at hospitals and clinical institutions.

www.ybmsbiotec.com



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