



**e-Structures**  
& Building Systems Ltd.

## **SANITATION SOLUTIONS**

MOULD AND SANITIZATION SERVICES

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e-Structures  
& Building Systems Ltd.



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AUTHORIZED DISTRIBUTOR OF

**BIOTECplus**

TOTAL DISINFECTION

**E-Structures Building Systems is pleased to have partnered with YBMS Biotec Ltd, and their line of products BIOTECplus as a distributor of their range of disinfectants, sterilizers, sanitizers and deodorizers.**

BIOTECplus fueled by a relentless pursuit of excellence and a global vision, our team of analytical and environmental chemists, agronomists, and researchers in Trinidad and Tobago expanded the horizons of BIOTECplus. In 2016, we pushed the boundaries of innovation and extended the application of BIOTECplus to various sectors, including medical, agricultural, commercial, hospitality (HORECA), food processing, waste management, and domestic use.

BIOTECplus isn't just a chemical; it's a symbol of our unwavering commitment to safety and innovation in the medical and industrial landscapes. It's a testament to our passion for discovery and our dedication to creating a safer, healthier world for generations to come.

At YBMS Biotec Ltd, we are driven by a singular mission: to revolutionize human health and wellness. We take a deliberately unique approach to the challenge of biosecurity, striking a delicate balance between consumer health and safety, environmental sustainability, and unparalleled efficacy.

As we continue on our journey, we remain steadfast in our commitment to

innovation, sustainability, and making a meaningful impact on society.

Join us as we pave the way towards a brighter, healthier future with BIOTECplus.



# BIOTEC<sup>®</sup>plus

## TOTAL DISINFECTION



Our unique proprietary formula is unmatched towards safety and application standards.

Our 3 E's that really set BIOTECplus apart from everything else on the market

**Efficacy-** Tested at the highest Biomedical standards for a myriad of the most difficult pathogen per category- Fungus, Bacteria, Virus, Algae. Residual power and long shelf life

**Efficiency-** On contact for hard surface and 15 minutes for sterilization/breakdown of blood

**Economics-** providing on average 12- 48 gallons per dual chambered concentrate( depending on application type) BIOTECplus will saves you a tremendous amount of money.

The product does not damage soft or hard materials, further saving costs on replacing damaged equipment, chairs etc.







## PRODUCT COMPOSITION & CHARACTERISTICS

Product name: BIOTECplus - "Total Disinfection"

Product class: Sterilant, Disinfectant, Sanitizer,

DESCRIPTION - sterilizes, disinfects, sanitizes and deodorizes

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 is a powerful biomedical disinfectant, that inhibits bacteria, fungi, algae, and viruses in the same application. Broad spectrum, fast acting with prolonged action!**

1. 100% Biodegradable
2. It is effective in the presence of organic matter
3. Non flammable
4. Stable PH 3 to 11.
5. 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 use.
8. Non-toxic: not absorbed through skin nor cause sensitization or irritation (Non systemic)
9. Does not emanate fumes or toxic gases.
10. NON carcinogenic. (manufactured and used 14+ years)
11. 100% Safe for humans.
12. Effective against diverse microorganisms in the same application ( Certified against Human Corona)





1 Gallon  
-Ready to use

Dual Chamber (DC)  
-Concentrate

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

**5TH GENERATION, QUATERNARY  
SURFACTANT BLEND**  
POWERFUL CONTACT

# BIOTEC<sup>®</sup>plus

## TOTAL DISINFECTION



CLINICIAN RECOMMENDED



**DISINFECTING  
SPITTOONS**



**STERILIZING  
TOOLS**



**FLUSHING  
LINES**

**SANITIZING SURFACES**

**POWERFUL, NON - TOXIC, BROAD SPECTRUM,  
DISINFECTANT + STERILIZER**

## SURFACE

## USAGE

**DUAL CHAMBER DILUTION**  
REGULAR 15ML (1 CHAMBER): 1 GAL. WATER  
SHOCK 30 ML (2 CHAMBERS): 1 GAL. WATER

### DOSAGE

### APPLICATION

Surgical Instruments	Regular/Shock	15 mins. immerse/ sterilize
Spittoons and Vacs	Regular/Shock	Flush
Dialysis Lines	Regular	Flush
Operating rooms	Regular	Spray, leave 15 mins.
X-Ray machine/ Ultrasound Probe	Regular	On contact ; spray
Clothes and other fabric	Regular	Apply during final rinse
Sanitizing surfaces; chairs, trays, sinks, counter tops	Regular	Spray, leave 15 mins.
Doors, handles, hand mirrors, protective glasses	Regular	Spray, leave 15 mins.
Reception Area	Regular	On contact ; spray
All Infectious Occurrence	Shock	Spray, leave 15 mins.

Eliminates  
99.9% of all bacteria,  
virus, fungus, mold & algae,  
while granting long lasting, active  
residual protection.

Our unique solution cleans,  
disinfects, ionizes, and deodorizes  
with a neutral pH in dilution.

Effective in the presence of organic  
matter. Odourless & colourless, no  
gloves or mask necessary.

Does not irritate and is non systemic.  
Completely safe & environmentally  
friendly.

BIOTECplus<sup>®</sup>  
Trusted for over 14 years.



**ACTIVE INGREDIENTS:**  
N-Alkyl Dimethyl Ethyl v Ammonium Chloride  
N-Alkyl Dimethyl Benzyl Ammonium Chloride





# BIOTEC<sup>®</sup>plus

## TOTAL DISINFECTION



**Dual Chamber (DC)  
-Concentrate**

**1 Gallon  
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- **NON - TOXIC • NO ALCOHOL • NO BLEACH**
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**5TH GENERATION, QUATERNARY  
SURFACTANT BLEND  
POWERFUL CONTACT**



**KILLS 99.99% Germs + Bacteria**

## SURFACE

## USAGE

**DUAL CHAMBER DILUTION**  
REGULAR 15ML (1 CHAMBER): 1 GAL. WATER  
SHOCK 30 ML (2 CHAMBERS): 1 GAL. WATER

### DOSAGE APPLICATION

Disinfection of production areas  
and safety zones.  
Disinfection of equipment

Regular

Spray or mist floors walls and  
ceilings. Use pure solution.  
Let dry.

Lab ware (plastic, rubber, glass).

Regular

Solution. Spraying or fogging.  
Let dry.

HIV/ hepatitis area, Incubators  
Observation beds Stretch-  
ers/handrails Sinks, Bathrooms,  
Cold room refrigerators

Shock

Immerse in solution for 15  
minutes. Let dry

Hand disinfection. (Use Sprayer)  
and allow to air dry.

Regular

Solution. Spraying or fogging  
15 min. Let dry.  
Hand disinfection. (Use  
Sprayer) and allow to air dry.  
Solution, works on contact

## BIOTECplus<sup>®</sup>

Eliminates 99.9 %  
of all BACTERIA, VIRUS,  
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**ACTIVE INGREDIENTS:**  
N-Alkyl Dimethyl Ethyl v Ammonium Chloride  
N-Alkyl Dimethyl Benzyl Ammonium Chloride







# BIOTEC<sup>®</sup>plus

## NON - TOXIC

### DISINFECTANT + SANITIZER



**Eliminate 99.9% Pathogens on contact**  
**Certified 100% Disinfection in 15 mins**

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



Dual Chamber  
Regular 15ml: 1 Gallon water  
Shock 30 ml: 1 Gallon water

SURFACE (Gw - Gallon of water)	BIOTECplus USAGE (from concentrate)	
	DOSAGE	APPLICATION
Hotel Rooms	Regular	Spray
Bathrooms	Regular	Spray/ Mop/ Wipe
Floors, walls,carpets	Regular	Spray. In cleaning equip.
HVAC systems	Regular	Spray; Intake/ Coils/ Ducting
Restaurant area	Regular	Spray
Cooking and Eating Utensils	Regular +1Gw	Immersion or Spray (15 min)
Fruits and Vegetables	Regular +1Gw	Immersion or Spray (15 min)
Kitchen surface and Environs	Regular	Spray
Clothes, Beds and Linen	Regular +14Gw	During Final Rinse
Metal Instruments and Equipment	Regular	Spray
Cold Rooms	Regular	Spray
Waste Rooms	Regular	Spray, (15 min)
Reception Area/ Lobby	Shock	Spray

(15 min - leave on surface to dry, or immersed)

**5TH GENERATION, QUATERNARY  
SURFACTANT BLEND**

N-Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride  
N-Alkyl Dimethyl Benzyl Ammonium Chloride

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# BIOTEC<sup>plus</sup>



Dual Chamber (DC)  
-Concentrate

1 Gallon  
-Ready to use

**"Eliminate  
99.9%  
Pathogens on  
contact."**

**Certified 100%  
Disinfection in  
15 mins"**



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Dual Chamber  
Regular 15ml: 1 Gallon water  
Shock 30 ml: 1 Gallon water

## FARM & LIVESTOCK

USES (concentrate)	CHAMBER	POTABLE WATER		APPLICATIONS		RINSE
	½ OZ UNITS	Ltrs.	Gal.	Spray	Nebuli- zation	
INITIAL APPLICATION SHOCK DOSE ( recommended )	2	4	1	✓	✓	NO
MAINTENANCE DOSE						
Disinfection of Livestock facilities, sheds, cages.	1	8	2	✓		NO
Disinfection of vehicles	1	8	2	✓		NO
Silos	1	8	2	✓		NO
Disinfection of nest boxes.	1	8	2	✓	✓	NO
Fertile Eggs for Hatching	1	4	1	✓		NO
"Environmental Microbial Control (Can be applied in the presence of animals)"	1	8	2	✓	✓	NO
Chicken Beds	1	8	2		✓	NO
Necrophilia and surgical Instruments.	1	4	1		IMMERSION	NO
Storage Rooms	1	8	2	✓		NO
Sanitation of Staff hands, Disinfection tunnels and sanitary arches	1	4	1	✓		NO



# BIOTEC<sup>plus</sup>



Dual Chamber (DC)  
-Concentrate

1 Gallon  
-Ready to use

## FARMS & ANIMAL HUSBANDRY

Table 1.0 Represents the types of pathogens existing at Farms and the associated contamination within the animal husbandry industry

Pathogens	Contamination Areas	Contamination Causes
Bacteria Virus Fungus	Poultry coops Poultry beds Hatcheries Barns Pigsty Waste area Silos	Poor farm management Poor slaughtering processes Antibiotic resistance Inability to stop transmissions among farm animals due to lack of education

**BIOTECplus is tested and certified to kill  
Algae, Yeast, Mold, Bacteria, and Viruses.**







# BIOTEC<sup>plus</sup>



Dual Chamber (DC)  
-Concentrate

1 Gallon  
-Ready to use

## GENERAL PATHOGENIC REMEDICATION

1 MINI chamber: ½ oz BIOTECplus concentrate solution  
(1-gallon BIOTECplus)

1-gallon BIOTECplus covers 2000 sq ft

Immersion: Place instruments in BIOTECplus for 15 minutes, remove  
and let air dry. Potable water applications

Imperial: Metric system

4 Liters: 1 gallon



USES (concentrate)	CHAMBER ½ OZ UNITS	POTABLE WATER		APPLICATIONS		RINSE
		Ltrs.	Gal.	Spray	Nebulization	
(DOUBLE Concentration)	2	4	1	✓	✓	NO
MAINTENANCE DOSE						
BACTERIA	1	8	2	✓	✓	NO
VIRUS	1	8	2	✓	✓	NO
FUNGUS/MOLD	1	8	2	✓	✓	NO
ALGAE	1	8	2	✓	✓	NO

The HUMAN CORONA VIRUS requires the exact applications as seen in the table for virus applications. Our figures (correlating our ppm values) are strictly based on our international testing carried out by the Microchem laboratory, Texas USA (under EPA regulations and standards)

Important final notes:

It is recommended, after a deep cleaning of the area, to use the shock dose as the first application, described in the BIOTECplus Dilution Table. This shock dose will immediately neutralize the pathogen which allows subsequent maintenance applications as seen in the BIOTECplus dilution table, to be used, accordingly. Do not mix the disinfectant and sanitizer BIOTECplus, with any type of disinfectant, or detergent or substances with negative charges (example: chlorine)





**BIOTEC<sup>®</sup>plus**



1.5kg (53oz)  
Soluble Grains

# BIOTECPLUS POWDER

**"Eliminate 99.9% Pathogens on  
contact. Certified 100%  
Disinfection in 15 mins"**

## BIOTECplus<sup>®</sup>

Eliminates 99.9 %  
of all BACTERIA, VIRUS, FUNGUS,  
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## GREENHOUSES AND AGRICULTURAL INSTALLATIONS

APPLICATION	DOSAGE	APPLICATION METHOD
Greenhouse disinfection (apply on walls, ceilings & floors)	2 g /1 Liter Water	Spray or Nebulize
Disinfection of hands, clothing and footwear	1 g /1 Liter Water	Spray or Nebulize
Disinfection of pruning tools, scissors, shovels, pots.	1 g/1 Liter Water	Spray or Immerse item
Substrate disinfection	1 g/1 Liter Water	Add solution directly to the substrate. -Let dry for 48 hours before placing the seeds for germination or transplanting cuttings
Seeds disinfection	1 g /1 Liter Water	Spray and let dry
Disinfection of packaging material	1 g /1 liter Water	Spray or Immerse item
Machinery disinfection	1 g/1 liter Water	Spray or Nebulize



# CERTIFICATION & TESTING

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, 15min), 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
Pseudomonas aeruginosa (bacteria)	NG11206
Staphylococcus aureus (MRSA- bacteria)	NG11206
Escherichia coli (bacteria)	NG11409
Trichophyton interdigitale (fungus)	NG11332
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





# EFFECTIVENESS AGAINST NATIVE REFERENTIAL BACTERIA STRAINS ENTEROPATHOGENIC AND RESPIRATORY

ENTEROPATHOGENIC BACTERIA	RESPIRATORY BACTERIA
1. Escherichia coli	6. Escherichia coli
2. Klebsiella spp.	7. Pasteurella multóside
3. Staphylococcus aureus	8. Bordetella avium
4. Salmonella spp.	9. Ornitobacterium rinotracheale
5. Pseudomona spp.	10. Aviabacterium paragallinarum

## START OF ACTION AND RESIDUAL POWER

BACTERIA	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
BACTERIA	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 1-10: Enteropathogenic and Respiratory Bacterial Strains

METHOD: TURBIDOMETRY





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## CONTACT US PURIFY YOUR SPACE

Call us for a consultation. Our innovative, technology eradicates all mould and stops it coming back. Guaranteed. Our response team will resolve your mould problem, no matter the scale.



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