



# **Key Features**

CONTROL offers high levels of antimicrobial activity (it carries on working and is a persistent solution) and is fragrance free, chlorine free, alcohol free and exhibits the following key qualities when in use,

Non-corrosive, Non-irritant, Non-toxic, Food safe, Safe in use with excellent levels of user acceptance and come with a prolonged antimicrobial effect and excellent material compatibility.

#### What is CONTROL?

CONTROL is a high level disinfectant technology platform offering safe, effective user friendly single step cleaning and disinfection across a wide range of industries from healthcare to educational establishments to food processing and veterinary science.

CONTROL is based around the quaternary ammonium compounds didecyldimethyl ammonium chloride (DDAC) and benzalkonium chloride (BAC) with an adjuvant effect to enhance its anti microbial efficacy.

The advanced technology within the CONTROL product has resulted in the production of a 6th generation quaternary ammonium compound (QAC).

# What has it been designed for?

CONTROL has been developed for high level disinfection of hard and soft surfaces, environments, equipment and air. It is to be used in areas In which the reduction of bioburden is needed to be achieved, to enable the interruption of key transmission pathways (surfaces and air) and reduce the risk of cross infection and contamination.

CONTROL has also been specifically developed to be sprayed through our electrostatic sprayers, to be used at the disinfection stage of the cleaning process or as well as the cleaning part of a protocol.

### How does CONTROL effect microbes?

CONTROL is a powerful lytic agent which is based on the quaternary ammonium compounds benzalkonium chloride and didecyldimethyl ammonium chloride.

These have multiple affects and points of action within the microbe which include:

- Inactivation of energy-producing enzymes
- Denaturation of essential microbial proteins
- Physical disruption of membrane lipids
- Bacteria cell walls

Proteins and lipids are essential components of bacteria, viruses, fungi and bacterial spores. Significant damage to these key microbial components is often fatal for the organism. CONTROL causes rapid and significant changes at multiple sites within the microbe. The magnitude of these affect is so great that it is typically lethal to the microbe within minutes of contact.

## How effective is CONTROL?

CONTROL, is a high level broad spectrum disinfectant cleaner which is effective against all microbial classes up to and including bacterial spores. See below table of extensive testing performed:

MICROBIAL CLASS	EFFICACY TEST	CONTACT TIME (Mins)	LOG REDUCTION
BACTERIA (gram + / Gram - )	EN 1276	1	> 6
	AOAC—Bactericidal	10	> 6
VIRUSES (enveloped and non enveloped)	EN 14476	5	>4
	AOAC—Virucidal	5	>4
FUNGI	EN 1650	1	>5
	AOAC—Fungicidal	10	> 6
BACTERIAL SPORES	EN 13704	60	>3
MYCOBACTERIA	EN 14563:2008	5	>5



AVAILABLE IN: 4 x 5L - 60ml in each 5L Just add water Green concentrate

**ORGANISM LIST DISINFECTION PERFORMANCE:** This product kills the following Streptococcus pyogenes {(ATCC 19615)} bacteria in 10 minutes on hard, non-porous surfaces: Streptococcus mutans {(ATCC 25175)} Acinetobacter baumannii {(ATCC 19003)} Enterococcus faecalis {(Vancomycin Resistant)} {(VRE)} {(ATCC 51299)} Acinetobacter Iwoffi ({ATCC 9957)} Staphylococcus aureus {(Vancomycin Intermediate Resistant)} {(VISA)} Acinetobacter Iwoffi {(ATCC 15309)} {(HIP 5836)} Bordetella bronchiseptica {(ATCC 10580)} Vibrio cholera {(ATCC 11623)} Chlamydia psittaci {(VR-125)} Yersinia enterocolitica {(ATCC 23715)} Citrobacter freundii {(ATCC 8090)} Enterobacter agglomerans {(ATCC 27155)} **VIRUCIDAL\* PERFORMANCE:** This product kills the following viruses in 10 minutes on hard, non-porous surfaces: Enterobacter aerogenes ((ATCC 13048) Avian Influenza A {(H5N1)} Virus Enterobacter cloacae {(ATCC 13047)} Avian Influenza A {(H3N2)} Virus {(Avian Reassortant)} {(VR-2072)} Escherichia coli {(ATCC 11229)} Cytomegalovirus {(VR-538)} Escherichia coli O111:H8 {(ATCC BAA-184)} Coronavirus {(SARS-associated)} Escherichia coli {(Carbapenem Resistant)} {(CDC 81371)} Hantavirus Escherichia coli {(Extended Spectrum B-Lactamase)} {(ESBL)} Hepatitis B Virus {(HBV)} {(ATCC BAA-196)} Hepatitis C Virus {(HCV)} Escherichia coli {(Tetracycline Resistant)} {(ATCC 47041)} Herpes Simplex Virus Type 1 {(VR-733)} Enterococcus faecalis {(ATCC 19433)} Herpes Simplex Virus Type 2 {(VR-734)} Enterococcus hirae {(ATCC 10541)} Human Coronavirus {(VR-740)} Fusobacterium necrophorum {(ATCC 27852)} Human Immunodeficiency Virus Type 1 {(HIV 1)} {(AIDS Virus)} Klebsiella oxytoca {(ATCC 13182)} Influenza A {(H1N1)} Virus {(VR-1469)} {(Strain A/PR/8/34)} Klebsiella pneumoniae {(ATCC 13883)} Influenza A Virus {(H3N2}} {(Hong Kong Strain)} {(VR-544)} Klebsiella pneumoniae {(NDM-1 positive)} Respiratory Syncytial Virus {(VR-26)} {(New Delhi metallo-beta-lactamase)} {(CDC 1000527)} Vaccinia Virus {(VR-119)} Listeria monocytogenes {(ATCC 19117)} Micrococcus luteus {(ATCC 14452)} ANIMAL PREMISE VIRUCIDAL\* PERFORMANCE: This product kills the following viruses in 10 minutes on hard, non-porous surfaces: Micrococcus luteus {(ATCC 4698)} Pasturella multocida ({ATCC 12947)} Avian Infectious Bronchitis Virus {(Strain Beaudette IB42)} Proteus vulgaris {(ATCC 9920)} Avian Influenza A Virus {(H5N1)} Proteus vulgaris ((ATCC 13315) Avian Influenza A Virus {(H3N2)} {(Avian Reassortant)} {(VR-2072)} Pseudomonas aeruginosa {(ATCC 15442)} Canine Coronavirus {(VR-809)} Pseudomonas aeruginosa {(Tetracycline Resistant)} {(ATCC 27853)} Canine Distemper Virus {(VR-128)} Pseudomonas cepacia {(ATCC 25416)} Feline Picornavirus {(VR-649)} Salmonella enterica {(ATCC 23564)} Infectious Bovine Rhinotracheitis Virus {(VR-188)} Salmonella enterica {(ATCC 10708)} Pseudorabies Virus {(VR-135)} Salmonella enteritidis {(ATCC 4931)} Swine Influenza A Virus {(H1N1)} {(Strain A/Swine/Iowa/15/30)} {(VR-333)} Salmonella enterica serotype pullorum {(ATCC 19945)} Transmissible Gastroenteritis Virus {(TGE)} {(Clinical Isolate)} Salmonella typhi {(ATCC 6539)} This product kills the following viruses in 10 minutes at 2 oz. per gal. of water and 5% soil on hard, non-porous surfaces: Salmonella typhimurium {(ATCC 23564) Serratia marcescens {(ATCC 9103)} Canine Parvovirus\*\* {(CPV)} {(VR-2017)} Mice\*\* {(Parvovirus)} {(VR-1346)} (Not for use in CA.) Serratia marcescens {(ATCC 14756)} Rabies\*\* Shigella flexneri {(ATCC 9380)} Porcine Parvovirus\*\* {(VR-742)} Shigella flexneri {(ATCC 12022)} \*\* Indicates that a dilution is required for this claim. Shigella sonnei {(ATCC 25931)} Staphylococcus aureus {(ATCC 6538)} Staphylococcus aureus {(ATCC 25923)} Staphylococcus aureus {(sub species aureus)} {(ATCC 33586)} Klebsiella pneumoniae {(ATCC 4352)} Staphylococcus aureus {(ATCC 14154)} Staphylococcus aureus {(ATCC 6538)} Staphylococcus aureus {(Community Associated Methicillin Resistant)} {(CA-MRSA)} {(Genotype USA 300)}

NON-FOOD CONTACT SANITIZING PERFORMANCE: This product is an effective one-step sanitizer in 3 minutes on hard, non-porous surfaces:

FUNGICIDAL PERFORMANCE: This product kills the following fungi in 10 minutes on hard, non-porous surfaces:

Trichophyton mentagrophytes {(ATCC 9533)} {(Athlete's foot fungus)} {(a cause of Ringworm)

MILDEWSTATIC PERFORMANCE: This product controls the following mold in 10 minutes on hard, non-porous surfaces:

Aspergillus niger {(ATCC 16404)}

Streptococcus pneumoniae {(Penicillin Resistant)} {(ATCC 51915)}

Staphylococcus aureus {(Community Associated Methicillin Resistant)}

Staphylococcus epidermidis {(Antibiotic resistant)} {(ATCC 51625)}

Staphylococcus aureus {(Methicillin Resistant)} {(MRSA)} {(ATCC 33592)}

{(CA-MRSA)} {(Genotype USA 400)}

Streptococcus agalactiae {(ATCC 13813)}

Staphylococcus epidermidis {(ATCC 14990)}

Staphylococcus haemolyticus {(ATCC 29970)}

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