



Key Features

ULTRA 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, cost effective, degrades / decomposes into safe by-products after use (water and oxygen), easy to use, excellent levels of user acceptance with a prolonged antimicrobial effect and excellent material compatibility.

What is ULTRA?

ULTRA is a world class high level sporicidal disinfectant technology offering rapid, safe and effective disinfection across a range of industries from healthcare to education establishments to food processing sites.

The technology within the **ULTRA** product is based on a mass of peracids with an adjuvant effect to enhance its antimicrobial activity. Peracids produce destructive hydroxyl free radicals which are strong oxidising agents. The antimicrobial function of **ULTRA** is similar to other high level sporicidal disinfectants such as peracetic acid and hydrogen peroxide whose primary mechanism of action is also achieved by oxidation as a result of the production of hydroxyl free radicals.

What has it been designed for?

ULTRA 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.

ULTRA has also been specifically developed to be sprayed through our electrostatic sprayers, to be used at the disinfection stage of the cleaning process.

How does ULTRA effect microbes?

The hydroxyl free radicals produced by **ULTRA** are responsible for its potent antimicrobial activity. Hydroxyl free radicals have multiple points of action on microbes, which include:

- **Attacking membrane lipids**
- **Breaking apart nucleic acids (DNA and RNA)**
- **Denaturing proteins**
- **Disrupting cell wall permeability**
- **Oxidation of sulphhydryl and sulphur bonds in proteins, enzymes and other metabolites.**

Proteins, lipids and nucleic acids are the essential components of bacteria, fungi, viruses and bacterial spores and significant damage to one or more of these components is often fatal for the microbe. The destructive nature of the hydroxyl free radicals coupled with multiple points of action result in **ULTRA** having a lethal effect on microbes within seconds / minutes of initial contact.

How effective is ULTRA?

ULTRA is a ultra-high level, broad spectrum disinfectant which is effective against all microbial classes up to and including bacterial spores. See below table for the summary of microbial classes and results of testing.

Ultra - kills C - Diff in under 2 mins.

All our EN and AOAC testing is carried out under Dirty Conditions, Temperature 20 °C, with 1, 5 and 10 - minute contact times.

Microbial Class	Efficacy Test	Contact Time (Mins)*	Log Reduction
BACTERIA (gram + / Gram-)	EN 1276	1	>5
	AOAC – Bactericidal 6	1	>6
VIRUSES (Enveloped / non-enveloped)	EN 14476	5	>4
	AOAC – Virucidal	5	>4
FUNGI	EN 1650	1	>5
	AOAC – Fungicidal	5	>6
BACTERIAL SPORES	EN13704	1	>6
	AOAC – Sporicidal	5	>6
MYCOBACTERIA	EN14563:2008	5	>4

*As our products are persistent we do not need to comply with contact / dwell times.

AVAILABLE IN: 2 x 5L - 250ml in each container - Just add water.

SPORICIDAL PERFORMANCE AGAINST C. DIFFICILE SPORES:**This product kills and/or inactivates the following spore in 2 minutes on hard, non-porous surfaces:**Clostridium difficile
{(ATCC 43598)}**DISINFECTION PERFORMANCE:****This product kills the following bacteria in 2 minutes on hard, non-porous surfaces:**

Acinetobacter baumannii {(ATCC 19606)}	Bordetella pertussis {(ATCC 12743)}
Escherichia coli {(ATCC 11229)}	Enterococcus faecalis {Vancomycin Resistant} {(VRE)} {(ATCC 51575)}
Klebsiella pneumoniae {(ATCC 4352)}	Klebsiella pneumoniae {(ATCC 4352)}Escherichia coli {(Extended Spectrum B-Lactamase)} {(ESBL)} {(BAA-196)}
Proteus mirabilis {(ATCC 9240)}	Klebsiella pneumoniae {Carbapenem Resistant} {(BAA-1705)}
Pseudomonas aeruginosa {(ATCC 15442)}	Salmonella enterica {(ATCC 10708)}
Staphylococcus aureus {(ATCC 6538)}	Staphylococcus aureus {Vancomycin Intermediate Resistant} {(VISA)} {(HIP 5836)}
Streptococcus pneumoniae {(ATCC 6305)}	Streptococcus pyogenes {(ATCC 19615)}

This product kills the following bacteria in 2 minutes on hard, non-porous surfaces:

Acinetobacter baumannii {(ATCC 19606)}	Bordetella pertussis {(ATCC 12743)}
Enterococcus faecalis {Vancomycin Resistant} {(VRE)} {(ATCC 51575)}	Escherichia coli {(ATCC 11229)}
Escherichia coli {(Extended Spectrum B-Lactamase)} {(ESBL)} {(BAA-196)}	Klebsiella pneumoniae {(ATCC 4352)}
Klebsiella pneumoniae {Carbapenem Resistant} {(BAA-1705)}	Proteus mirabilis {(ATCC 9240)}
Staphylococcus aureus {Methicillin Resistant} {(MRSA)} {(ATCC 33592)}	Salmonella enterica {(ATCC 10708)}
Staphylococcus aureus {Community Acquired Methicillin Resistant} {(CA- MRSA)} {(Genotype USA300)}	Pseudomonas aeruginosa {(ATCC 15442)}
Staphylococcus aureus {Community Acquired Methicillin Resistant} {(CA- MRSA)} {(Genotype USA400)}	Staphylococcus aureus {(ATCC 6538)}
Staphylococcus aureus {Vancomycin Intermediate Resistant} {(VISA)} {(HIP 5836)}	Streptococcus pneumoniae {(ATCC 6305)}
Streptococcus pyogenes {(ATCC 19615)}	

This product kills the following bacteria in 10 minutes:

Bordetella bronchiseptica {(ATCC 10580)}	Campylobacter jejuni {(ATCC 29428)}
Corynebacterium ammoiagenes {(ATCC 6872)}	Enterococcus faecalis {Vancomycin Resistant} {(VRE)} {(ATCC 51575)}
Escherichia coli O157:H7 {(ATCC 35150)}	Klebsiella pneumoniae {(ATCC 4352)}
Listeria monocytogenes {(ATCC 19117)}	Pseudomonas aeruginosa {(ATCC 15442)}
Salmonella enterica {(ATCC 10708)}	Salmonella typhi {(ATCC 6539)}
Shigella sonnei {(ATCC 25931)}	Staphylococcus aureus {(ATCC 6538)}
Staphylococcus aureus {Community Acquired Methicillin Resistant} {(CA MRSA)} {(Genotype USA400)}	Staphylococcus aureus {Vancomycin Intermediate Resistant} {(VISA)} {(HIP 5836)}

GENERAL DISINFECTION (Non-Health Care Sites):**This product kills the following bacteria in 10 minutes on hard, non-porous surfaces:**

Bordetella bronchiseptica {(ATCC 10580)}	Corynebacterium ammoniagenes {(ATCC 6872)}
Escherichia coli O157:H7 {(ATCC 35150)}	Enterococcus faecalis {Vancomycin Resistant} {(VRE)} {(ATCC 51575)}
Listeria monocytogenes {(ATCC 19117)}	Salmonella enterica {(ATCC 10708)}
Salmonella typhi {(ATCC 6539)}	Shigella sonnei {(ATCC 25931)}
Staphylococcus aureus {(ATCC 6538)}	Staphylococcus aureus {Vancomycin Intermediate Resistant} {(VISA)} {(HIP 5836)}

VIRUCIDAL PERFORMANCE:**This product kills the following viruses in 2 minutes on hard, non-porous surfaces:**

Enterovirus Type 68 {(VR-561, Strain Fermon)}	Herpes Simplex Virus Type 1 {(VR-733)}
Herpes Simplex Virus Type 2 {(VR-734)}	Human Immunodeficiency Virus Type 1 {(HIV-1)} {(AIDS Virus)} {(HTLV-IIIB)}
Influenza A Virus {(VR-544)}	{(Hong Kong)} Respiratory Syncytial Virus {(RSV)} {(VR-26)}
Rhinovirus Type 37 {(VR-1147)}	Rotavirus {(Strain WA)}
Vaccinia Virus {(VR-119)}	