

# Evidence Based Efficacy

## EnviroGuard PRO™ X

EnviroGuard PRO™ X is an integrated system that delivers unparalleled air quality and environmental safety. This next generation technology provides simultaneous in-air and on-surface sanitisation through the synergy of advanced purification and filtering, with active Purox sanitisation, continuously assuring improved hygiene of indoor air and surfaces.

### How it works

The device actively evaporates the Purox™ gel into the outbound airstream of the device. The active ingredient is hydrogen peroxide, this is a very effective anti-microbial that is used widely in healthcare environments. It is also created by sunlight in fresh air. The gel has an immediate sanitising effect on the air surrounding the device and also lands on surfaces, including hidden surfaces, where it has a similar sanitising effect.

The hydrogen peroxide is highly efficacious as a sanitiser but at levels that are completely safe to the room's occupants<sup>1</sup>.

The air is then returned through a 4 part filter, including an anti-microbial layer that kills bacteria, viruses and moulds before the air passes through a high efficient HEPA 13 filter removing particulates (99.97% at 0.3 µm) from the air and finally a carbon layer removing volatiles and odours from the air.

It is the rapid dispersion of the gel that makes the EnviroGuard™ PRO X uniquely efficient in improving indoor hygiene. It has a more immediate effect on air quality than filter-only systems, and it can also sanitise surfaces that filter-only systems cannot.

### Evidence

EnviroGuard PRO™ X actively reduces airborne contaminants and pollutants such as moulds, particulates and VOCs with improved protection against a wide spectrum of viruses, bacteria and fungi in your workplace.

In certified third-party laboratory tests, EnviroGuard PRO™ X has been proven to reduce up to 99.99% of pathogens including Escherichia coli, Staphylococcus aureus, Staphylococcus albus, Candida albicans, and Pseudomonas aeruginosa.

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<sup>1</sup> See *Safety of Purox™ Gel*, EnviroGuard Pty Ltd, 2023

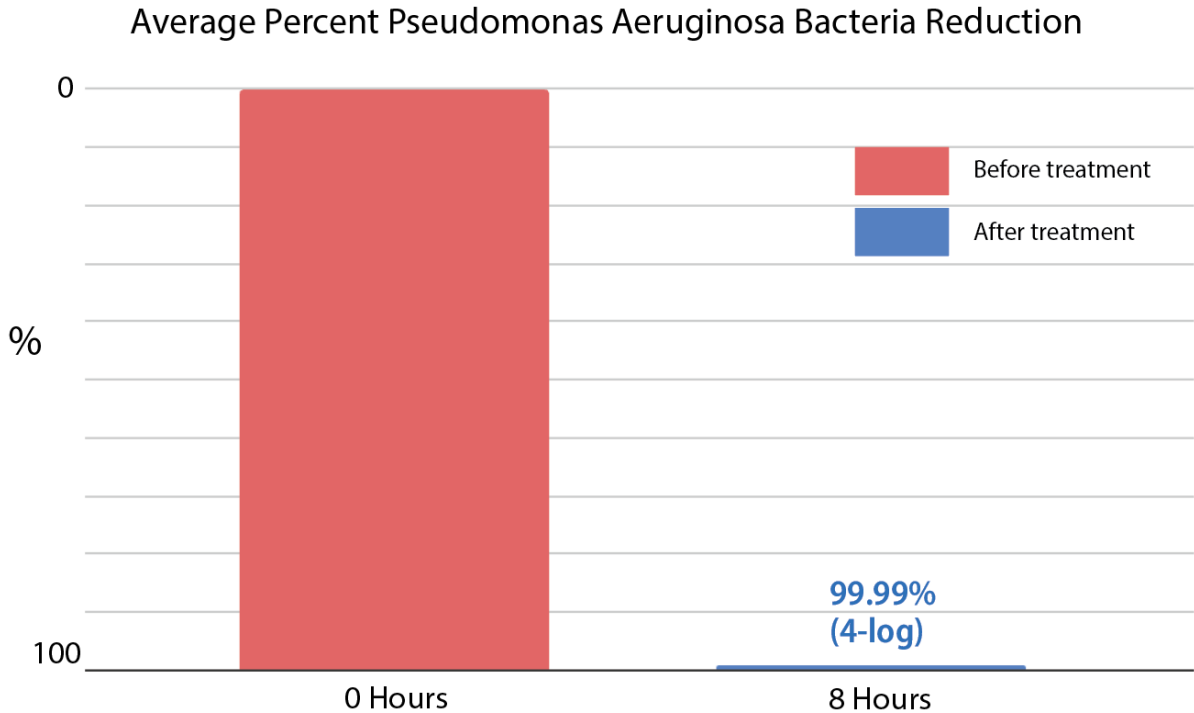
# Pseudomonas Aeruginosa Bacteria

Reduction of Surface Contaminants

# 99.99%

Reduction after 8 hours of treatment

This study was based upon EN 17272:2020, EN 13697 and designed to evaluate the bactericidal activity (measured as log reduction) of the EnviroGuard™ PRO X using a Purox™ Gel<sup>2</sup>.



<sup>2</sup> Testing performed at Eurofins BioPharma Product Testing – Sydney (Eurofins ams Laboratories Pty Ltd), 179 Magowar Road Girraween NSW 2145 Australia. Eurofins ams Laboratories Pty Ltd is licensed by the Australian Therapeutic Goods Administration for analysis and testing (Licence No. MI-2021-LI-08995-1 and GMP Certificate No MI-2022-LI06073-1), and registered with Food and Drug Administration USA (DUNS No 754742088 and Facility Establishment Identifier No 3006635869).

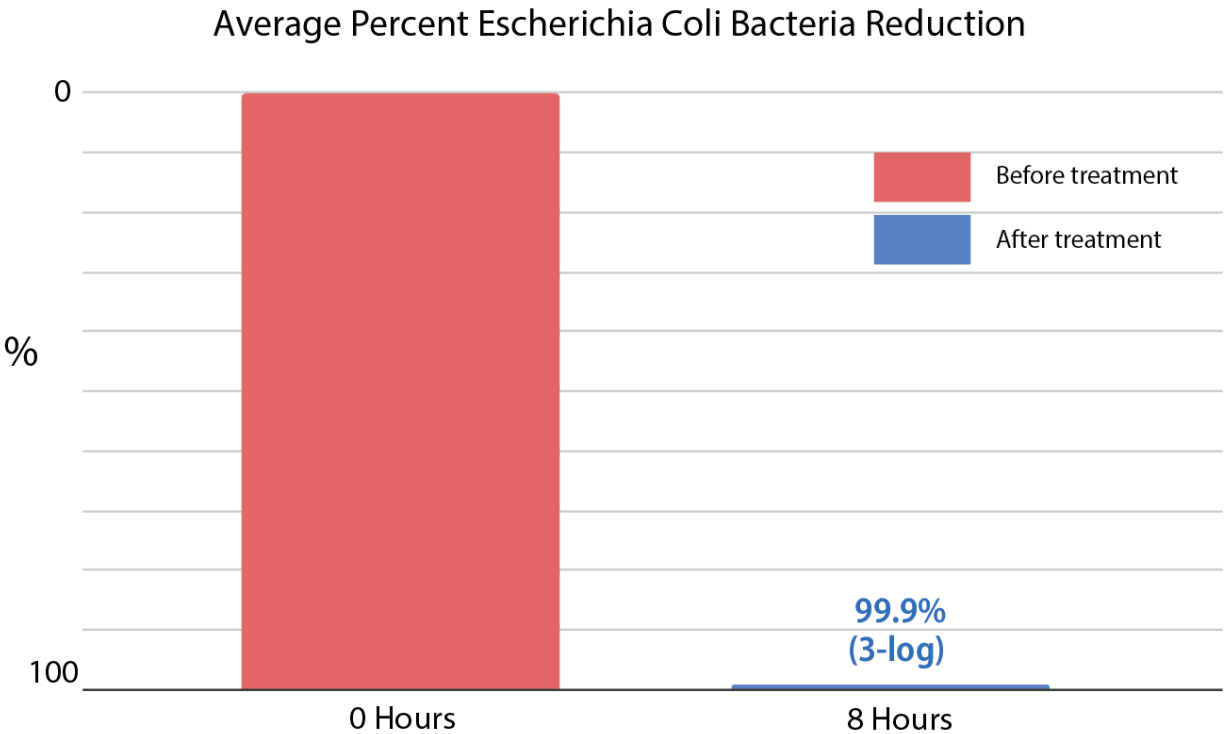
# Escherichia Coli Bacteria

Reduction of Surface Contaminants

# 99.9%

Reduction after 8 hours of treatment

This study was based upon EN 17272:2020, EN 13697 and designed to evaluate the bactericidal activity (measured as log reduction) of the EnviroGuard PRO™ X using a Purox™ Gel<sup>3</sup>.



<sup>3</sup> Testing performed at Eurofins BioPharma Product Testing – Sydney (Eurofins ams Laboratories Pty Ltd), 179 Magowar Road Girraween NSW 2145 Australia. Eurofins ams Laboratories Pty Ltd is licensed by the Australian Therapeutic Goods Administration for analysis and testing (Licence No. MI-2021-LI-08995-1 and GMP Certificate No MI-2022-LI06073-1), and registered with Food and Drug Administration USA (DUNS No 754742088 and Facility Establishment Identifier No 3006635869).

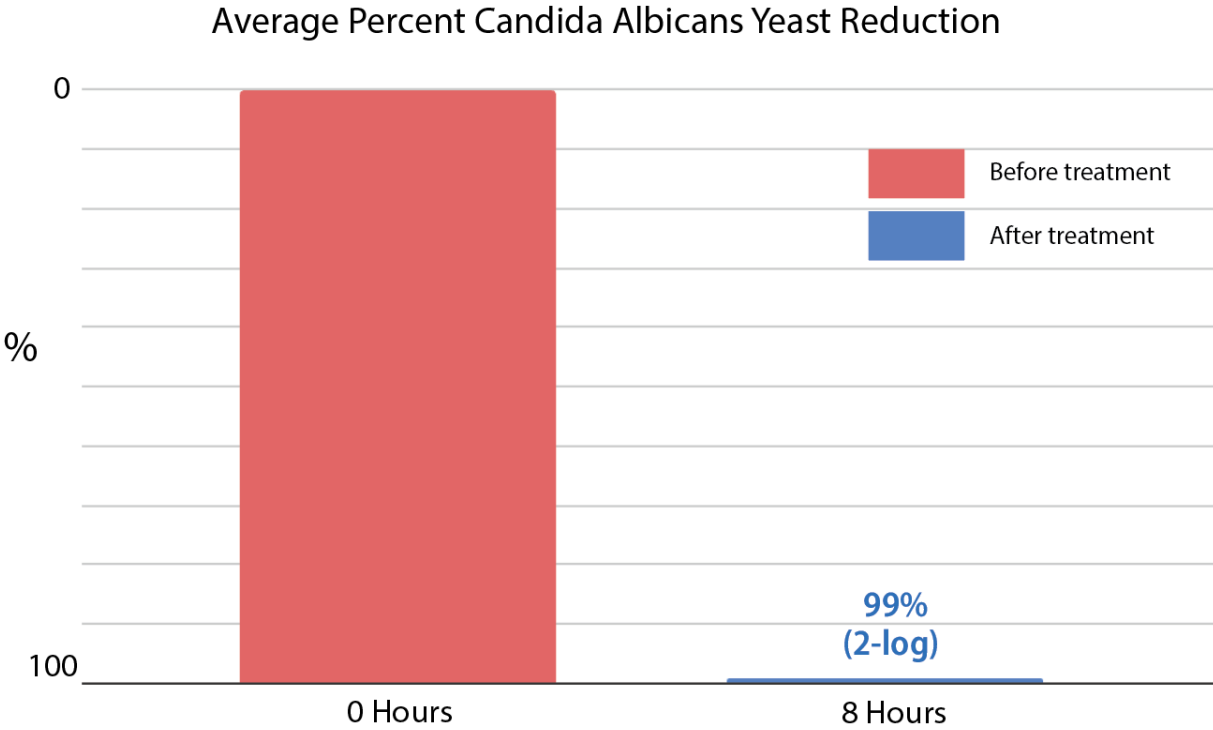
# Candida Albicans Yeast

Reduction of Surface Contaminants

# 99%

Reduction after 8 hours of treatment

This study was based upon EN 17272:2020, EN 13697 and designed to evaluate the yeasticidal activity (measured as log reduction) of the EnviroGuard PRO™ X using a Purox™ Gel<sup>4</sup>.



<sup>4</sup> Testing performed at Eurofins BioPharma Product Testing – Sydney (Eurofins ams Laboratories Pty Ltd), 179 Magowar Road Girraween NSW 2145 Australia. Eurofins ams Laboratories Pty Ltd is licensed by the Australian Therapeutic Goods Administration for analysis and testing (Licence No. MI-2021-LI-08995-1 and GMP Certificate No MI-2022-LI06073-1), and registered with Food and Drug Administration USA (DUNS No 754742088 and Facility Establishment Identifier No 3006635869).

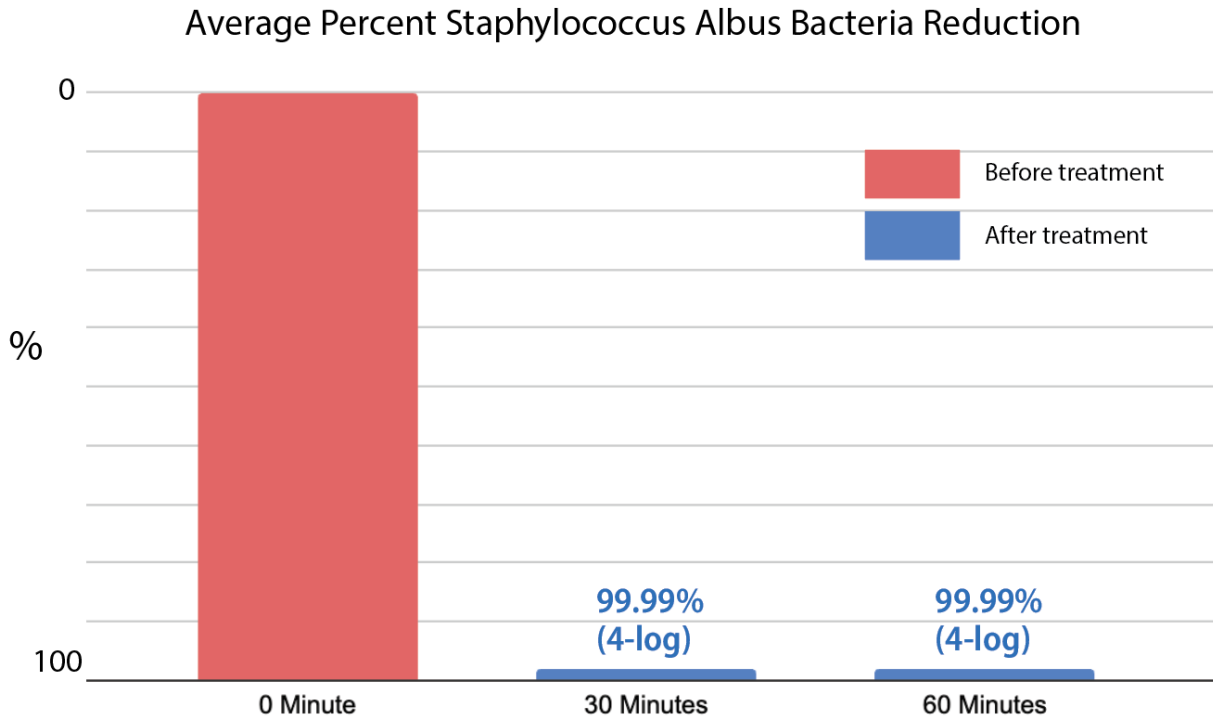
# Staphylococcus Albus Bacteria

Reduction of Airborne Contaminants

# 99.99%

Reduction after 30 minutes of treatment

This study was a simulated field test (including neutraliser) performed in a 20m<sup>3</sup> aerosol chamber (at a rate of 0.21m/m<sup>3</sup>) to determine the air disinfection effect of the sanitising Purox™ Gel using Technical Standard for disinfection GB 27948-2020 (Version 2002)<sup>5</sup>.



<sup>5</sup> Testing performed at ICAS Testing Technology Service (Shanghai) Co. Ltd. The sample was determined to be qualified and met the requirements specified in the Technical Standard for disinfection GB 27948-2020 (Version 2002). Net log reduction.

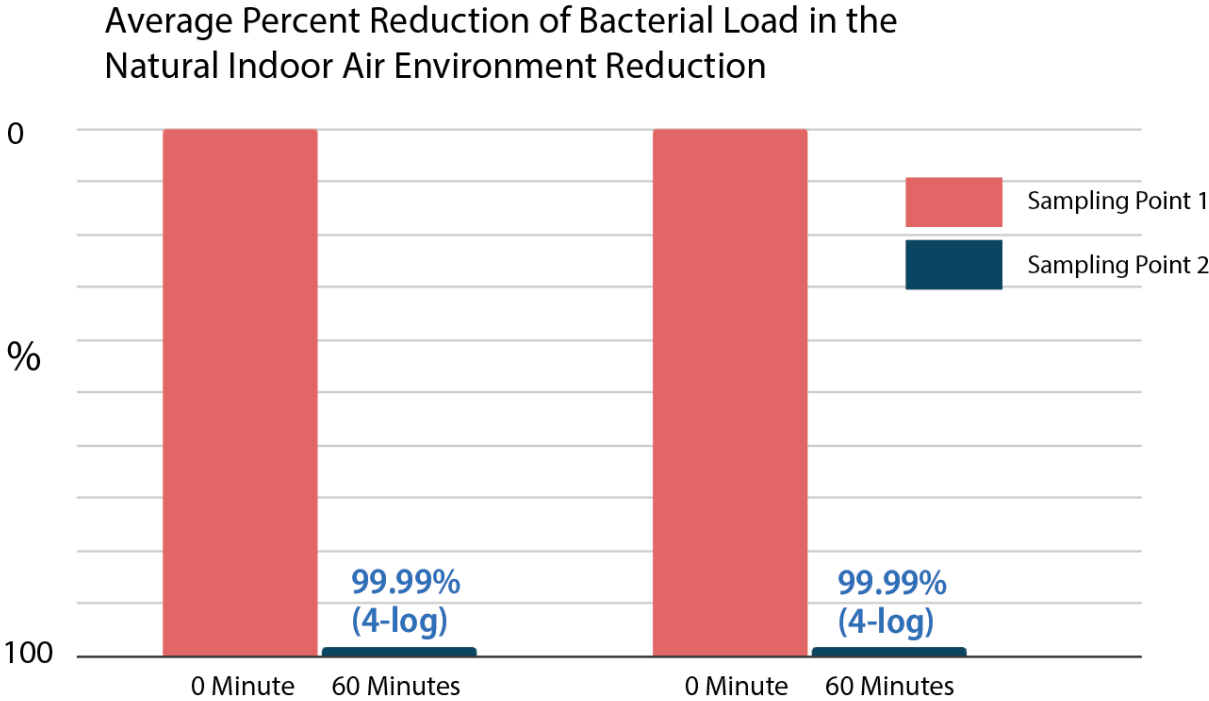
# Reduction of Bacterial Load in the Natural Indoor Air Environment

Reduction of Airborne Contaminants

# 99.99%

Reduction after 60 minutes of treatment

This study was a simulated field test to determine the bacterial load in the natural air environment and air disinfection effect of the sanitising Purox™ Gel using Technical Standard for disinfection GB 27948-2020 (Version 2002). This study was performed in a 30m<sup>3</sup> air chamber (at a rate of 0.21mL/m<sup>3</sup>) for 60mins. The decrease in bacterial load in the natural air environment was determined by sampling before air disinfection (0mins) and post disinfection (60mins)<sup>6</sup>.



<sup>6</sup> Testing performed at ICAS Testing Technology Service (Shanghai) Co. Ltd. The sample was determined to be qualified and met the requirements specified in the Technical Standard for disinfection GB 27948-2020 (Version 2002). Net log reduction.