



This document has been developed in accordance with current applicable infection control and biosecurity guidelines. It is intended for use as a guideline only. At no time should this document replace existing documents established by the facility unless written permission has been obtained from the responsible facility manager.

#### PREFACE

Bacteria are a large domain of single-celled, prokaryote microorganisms. Typically a few micrometres in length, bacteria have a wide range of shapes, ranging from spheres to rods and spirals. The vast majority of the bacteria in the body are rendered harmless by the protective effects of the immune system, and some are even beneficial. Pathogenic bacteria can cause infectious diseases in a susceptible host. The mode of transmission for bacteria varies; however, the most common routes are via indirect or direct contact of infectious particles, contact with or inhalation of respiratory droplets. Some bacteria may also be transmitted by ingestion of contaminated food, or maternal-to-newborn transmission. Vegetative Bacteria including antibiotic resistant organisms are easily inactivated by routine surface cleaning and disinfection. At present there is no scientific evidence to show that antibiotic resistance equates to chemical resistance.

The following list provides examples of some pathogenic Gram Negative and Gram Positive Bacteria for birds, mammals and primates.

Acinetobacter iwoffi	Leptospira grippotyphosa	Rhodococcus equi
Bordetella avium	Leptospira interrogans	Salmonella enterica
Bordetella bronchiseptica	Listeria monocytogenes	Salmonella enteritidis
Brucella abortis	Micrococcus luteus	Salmonella typhimurium
Burkholderia mallei	Moraxella bovis	Serratia marcescens
Campylobacter jejuni	Morganella morganii	Shigella dysenteriae







Chlamydia psittaci	Mycobacterium avium	Staphylococcus aureus
Corynebacterium faecium	Mycobacterium bovis	Staphylococcus aureus (MRSA)
Corynebacterium kutscheri	Mycoplasma cynos	Staphylococcus epidermidis
Corynebacterium pseudotuberculosis	Mycoplasma mycoides	Staphylococcus epidermidis, MRSE
Enterococcus faecalis	Mycoplasma pneumonia	Staphylococcus hyicus
Enterococcus faecalis (Vancomycin Resistant)	Pasteurella anatipestifer	Staphylococcus pseudintermedius
Enterococcus faecium	Pasteurella multocida	Streptococcus agalactiae
Escherichia coli	Proteus mirabilis	Streptococcus equi zooepidemicus
<i>Escherichia coli</i> (Extended Spectrum Beta-lactamase)	Proteus vulgaris	Streptococcus pneumoniae
Fusobacterium necrophorum	Pseudomonas aeruginosa	Streptococcus pneumoniae (Penicillin Resistant)
Helicobacter pylori	Pseudomonas aeruginosa (Tetracycline Resistant)	Trueperella pyogenes
Klebsiella pneumoniae	Pseudomonas maltophilia	Yersinia enterocolitica

### PERSONAL PROECTIVE EQUIPMENT

According to the risk of zoonotic disease, appropriate personal protection should be taken for those responsible for the decontamination of a cage, kennel, and stall or area animal housing area. According to the infectious disease risk of the area and animals being managed appropriate biosecurity measures, including barrier nursing should be instituted in order to protect the animals and humans.

Appropriate personal protection may include the following:







- 1. Disposable gloves. Gloves should be changed as required (when torn, when hands become wet inside the glove or when moving between animal housing areas).
- 2. Protective Eye wear (goggles, face shield or mask with eye protection) as appropriate based on task to be completed
- 3. Masks (surgical or procedural masks sufficient) as needed
- 4. Gowns as needed

#### PRODUCTS

All Accelerated Hydrogen Peroxide<sup>®</sup> (AHP<sup>®</sup>) disinfect-cleaner products have been approved for sale as a disinfectant by either Health Canada or the US Environmental Protection Agency (EPA) and carry either a DIN or EPA registration number indicating their approval for sale as a disinfectant.

AHP<sup>®</sup> disinfectants are registered as a Hospital Grade Disinfectant which denotes that the products have been proven efficacious against the three main surrogate bacteria designated both Health Canada and the EPA for Bactericidal activity; *Staphylococcus aureus, Pseudomonas aeruginosa* and *Salmonella enterica* (formerly known as *Salmonella choleraesuis*) with contacts times of 1 minute to 10 minutes depending on the formulation and/or dilution used. While many registered disinfectant products carry claims against Antibiotic Resistant Organisms such as MRSA or VRE it is important to understand that resistance to Antibiotics does not equate to chemical resistance.

Product Name	Market	Country
Prevail™	Companion and Farm Animal	Canada
Rescue™	Companion Animal	USA
Intervention <sup>™</sup>	Farm Animal	USA

## RECOMMENDED PROCEDURES FOR CLEANING AND DISINFECTION OF ANIMAL HANDLING AND CARE EQUIPMENT

Contaminated animal equipment should be clearly identified and kept separate from clean equipment. Animal care and handling equipment include: blood pressure cuffs, stethoscopes, thermometers, handling or restraining gear, feeding and watering containers, etc.

1. Use the AHP<sup>®</sup> solution to **clean** soiled items. Apply AHP solution evenly over surface ensuring that all surfaces are thoroughly wet. Items that can be immersed may be placed into a container of AHP solution.





- 2. Scrub to help remove soil and rinse.
- 3. Use AHP<sup>®</sup> solution to **disinfect**
- 4. Apply AHP<sup>®</sup> solution evenly over surface ensuring that all surfaces are thoroughly wet. Items that can be immersed may be placed into a container of AHP solution.
- 5. Allow the items to remain in contact with the AHP<sup>®</sup> solution for the appropriate contact time (refer to the label of the AHP<sup>®</sup> solution being used).
- 6. After the contact time has been achieved remove any excess solution with a clean cloth, or paper towel and allow to air dry.
- 7. Items that have been immersed should be removed from the solution after the appropriate contact time, rinsed with potable water and allowed to air dry.

# RECOMMENDED PROCEDURES FOR CLEANING AND DISINFECTION OF KENNELS AND CAGES:

The AHP<sup>®</sup> technology is designed to be both an excellent cleaner and effective disinfectant and can be used in place of a degreaser or detergent.

- 1. Remove all animals and feed from the area to be cleaned and disinfected.
- 2. Remove all bedding or animal enrichment materials and fecal matter from floors, walls and surfaces of kennels or cages.
- 3. Empty or cover all feeding and watering containers.
- 4. Thoroughly clean all surfaces with soap or a detergent or the AHP<sup>®</sup> solution and rinse.
- 5. Apply the AHP<sup>®</sup> disinfectant solution to floors, walls and other surfaces of the kennels or cages ensuring the surfaces are thoroughly wet and allow to remain wet for the appropriate contact time.
- 6. Allow surfaces to dry before reintroducing animals back into the kennels or cages.
- 7. Clean and disinfect all equipment used to remove bedding and fecal matter.

## RECOMMENDED PROCEDURES FOR CLEANING AND DISINFECTION OF ANIMAL HOUSING FACILITIES:

The AHP<sup>®</sup> technology is designed to be both an excellent cleaner and effective disinfectant and can be used in place of a degreaser or detergent.

- 1. Remove all animals and feed from the area to be cleaned and disinfected.
- 2. Remove all litter, bedding and manure from floors, walls and surfaces of cages, stalls or other animal handling areas.
- 3. Empty or cover all feeding and watering containers.
- 4. Thoroughly clean all surfaces with soap or a detergent or AHP<sup>®</sup> solution and rinse.





- 5. Apply the AHP<sup>®</sup> disinfectant solution to floors, walls and other surfaces of the cages, stalls or other animal handling areas ensuring the surfaces are thoroughly wet and allow to remain wet for the appropriate contact time.
- 6. Allow surfaces to dry before reintroducing animals back into the cages, stall or animal handling areas.
- 7. Clean and disinfect all equipment used to remove litter, bedding and manure.

