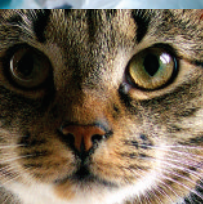
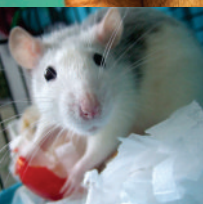
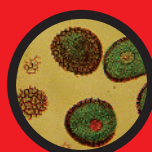
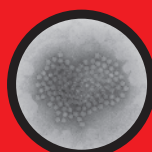


PRODUCTS FOR BIOSECURITY IN LABS

F10[®]
PRODUCTS



F10[®]
PRODUCTS



HEAD AND SHOULDERS ABOVE THE REST



F10[®] PRODUCTS APPLICATION GUIDE

- EFFECTIVE • FAST-ACTING • NON-TOXIC • NON-CORROSIVE • NON-STAINING
- ECONOMICAL • SAFE • BIODEGRADABLE



LABORATORY PRODUCT RANGE

APPLICATIONS	PRODUCT	DILUTION***	SPECIAL FEATURES
ENVIRONMENTAL PRODUCTS			
WASHING AND SCRUBBING for High Level Disinfection <ul style="list-style-type: none"> Floors, walls, work surfaces and counters Waste bins Utensils, Equipment and Glassware Sinks/Wash basins ADDITIONAL APPLICATIONS FOR SPF FACILITIES: <ul style="list-style-type: none"> Shower Facilities Cages (Non autoclavable) Cage Stands Water bottles/Feed Hoppers 	F10SCXD Veterinary Disinfectant/ Cleanser (Green, soapy)	1:100 (10 ml / liter water) Floors & general environment where there is minimal risk of infection: 1:250 (4 ml / liter water)	Super Concentrate Disinfectant/cleanser with added detergent and pine fragrance. Kills Bacteria, Fungi, Viruses, Spores FAST and EFFECTIVE . Non-corrosive, equipment friendly. Completely safe and non-toxic.
Used in spray bottles for HIGH LEVEL DISINFECTION <ul style="list-style-type: none"> Work surfaces and counters Laminar flow cabinets High Touch Areas e.g. light switches, door handles etc Incubators Fogging Sanitation of drains Dunk Tanks 	F10SC Veterinary Disinfectant (Clear)	1:100 (10 ml / liter water)	Super Concentrate Disinfectant . Kills Bacteria, Fungi, Viruses, Spores FAST and EFFECTIVE . Non-corrosive, equipment friendly. Completely safe and non-toxic.
DEEP CLEAN to remove build-up of fats, proteins and biofilm <ul style="list-style-type: none"> Floors & corners Cages Drains Walk-In Fridges/PM Facilities Sinks/Basins 	F919SC Biofilm Remover and Heavy Duty Degreaser	1:50 20 ml / liter water	A heavy duty degreaser/cleanser with an emulsifying action for removing heavy soiling, protein, fat and natural oils (Biofilm).
<ul style="list-style-type: none"> HLD of Laminar Flow Cabinet work surfaces Hand decontamination Overspraying of PPE's 	F10 Skin Prep	Ready to use	F10 and alcohol (20 %) based pre-op skin preparation. Bactericidal, Fungicidal and Virucidal. Non – irritating. Bright blue but non staining.
<ul style="list-style-type: none"> Cold sterilization of instruments, endoscopes, et-tubes, heat-sensitive devices 	F10 STERILANT with Rust Inhibitor	Ready to use	Safe and effective cold sterilization within 10 min. No need to rinse.

APPLICATIONS	PRODUCT	DILUTION***	SPECIAL FEATURES
ENVIRONMENTAL PRODUCTS			
High level disinfection AND insect repellent for hard surface areas such as: <ul style="list-style-type: none"> • Post Mortem Rooms • Store Rooms • Inside Buildings (Enclosed Spaces) 	F10 Insecticide Surface Spray	Ready to use	Broad spectrum antimicrobial action of F10 actives in combination with insecticidal action of cypermethrin (a pyrethroid). Completely safe, non-irritating. Excellent residual properties – after initial build-up – use weekly (or as required). Avoid contact with domestic cats and aquatic life.
HAND HYGIENE PRODUCTS			
<ul style="list-style-type: none"> • Pre-operative decontamination of hands • Shower soap 	F10 Hand Scrub (pink)	Ready to use	Surgical scrub with skin care components. Bactericidal, Fungicidal and Virucidal. Non-irritating to skin. Contains no Chlorhexidine / Iodine / Aldehydes.
High level decontamination of hands	F10 Antiseptic Liquid Soap (light yellow)	Ready to use	An antiseptic hand soap with skin care components. Bactericidal, Fungicidal and Virucidal. Non-irritating to skin. Contains no Chlorhexidine / Iodine / Aldehydes.
Waterless alternative for hand decontamination	F10 Hand Gel	Ready to use	F10 and alcohol (only 35%) based waterless hand decontaminate with skin care components. For use between procedures when hands are not physically soiled. Kills bacteria within 15 – 30 sec.
AEROSOL PRODUCTS			
<ul style="list-style-type: none"> • HLD of labs, vehicles and any area where there is a risk of airborne contamination. One 500 ml canister will effectively disinfect 34 cubic meters of air space 	F10 Disinfectant Aerosol Fogger	Ready to use	High level disinfection of hard surfaces and air spaces within a 27 cubic meter area. Effective against bacteria, fungi, viruses and bacterial and fungal spores at the correct contact time.
<ul style="list-style-type: none"> • HLD of pre-cleaned surfaces e.g. trolleys, work surfaces, laminar flow cabinets and incubators 	F10 Disinfectant Aerosol	Ready to use	High level disinfection of hard surfaces and hard to reach areas e.g. incubators. Effective against bacteria, fungi, viruses and bacterial and fungal spores at the correct contact time.

*** Suggested dilution rates :- Low and medium risk areas 1:250 of F10SC and F10SCXD will be effective against Gram positive and Gram negative bacteria, enveloped viruses, yeasts and moulds, high risk 1:100 for non-enveloped viruses. © Health and Hygiene Pty Ltd



10 REASONS TO USE **F10**[®] IN YOUR FACILITY

	F10 Products	Your Current Products
1. INDEPENDENTLY ASSESSED and APPROVED - to date over 50 company and product registrations by regulatory authorities internationally including Australia, some EU states, Middle East, South Africa, UK *(HSE, REACH, DoP, AI & IAOM) and the USA.	✓	?
2. PROVEN effectiveness and safety internationally used by customers in 35 countries (market leader in two countries), across a wide range of exotic species, companion animals, and production animal applications in clinics, hospitals, referral centres, teaching hospitals, breeding facilities, welfare & rehab, zoo's, diagnostic labs, animal labs, oceanariums, all aspects of animal husbandry.	✓	?
3. PREMIUM PERFORMANCE complete spectrum efficacy products proven over 100's of actual product specific tests (no extrapolations) covering Gram positive and Gram negative bacteria, fungi (vegetative and spores) , yeasts and moulds, enveloped and non-enveloped viruses, bacterial spores using the Standards test protocols including AFNOR (French), EN(EU), SANS (SA), APVMA (Aus), DEFRA (UK) and AOAC/EPA (USA) by accredited laboratories.	✓	?
4. SUPERIOR SAFETY to user and animal alike based upon almost 20 years of experience without adverse reports and backed up by recent product specific (no extrapolations) toxicity and safety data (OECD and EPA).	✓	?

	F10 Products	Your Current Products
5. GOLD STANDARD achievements against all world class benchmarks in efficacy, safety, manufacture and added value services.	✓	?
6. COMPLETE AND COMPATIBLE an integrated and compatible product range that covers all environmental and infection control applications in the facility without having to worry about adverse reactions between differing chemicals on people, animals, equipment or the environment.	✓	?
7. ADDED VALUE by having available experts who have extensive operational experience to give advice and training to ensure that product use is effective, safe and economic.	✓	?
8. CONSISTENCY of product quality is achieved because they are manufactured to the highest pharmaceutical manufacturing standards (GMP accepted by VMD) and where external auditors monitor compliance annually (including product retesting).	✓	?
9. PEACE OF MIND when all of the above have been taken into account it adds up to product superiority and integrity at every stage of the process of product development from application research, efficacy testing, safety studies, quality management systems, and in-field monitoring all adds up to "peace of mind" for the facility team and their clients.	✓	?
10. AFFORDABLE price premium. (Compared to cheaper products where efficacy or safety could be compromised)	✓	?



COMMON ATTRIBUTES OF THE FIO® PRODUCT RANGE

Composition

The core actives of all the disinfectant products are a unique blend of quaternary ammonium and biguanide compounds, with non toxic ampholytic surfactants and sequesterant producing an end-product with outstanding efficacy and safety at economic use concentrations.

Broad spectrum efficacy

A broad spectrum biocide effective against bacteria, fungi, viruses and bacterial and fungal spores:-

BACTERIA		FUNGI, YEASTS & MOULDS	VIRUSES	SPORES
<i>Acinetobacter anitratus</i>	<i>Staphylococcus aureus</i> (MRSA & MRSP)	<i>Aspergillus niger</i>	<i>Adenovirus</i>	<i>Aspergillus niger</i>
<i>Campylobacterspp</i>		<i>Aspergillus fumigates</i>	<i>Avian Influenza Virus</i>	<i>Bacillus subtilis</i>
<i>Clostridium difficile</i>	<i>Mycoplasma spp.</i>	<i>Microsporium canis</i>	<i>Canine Parvovirus</i>	<i>Microsporium canis</i>
<i>Clostridium sporogenes</i>	<i>Mycobacterium terrae</i>	<i>Penicillium verrucosum</i>	<i>Circovirus</i>	<i>Clostridium spp.</i>
<i>Corynebacterium xerosis</i>	<i>Mycobacterium smegmatis</i>	<i>Trichophyton mentogrophytes</i>	<i>Enterovirus</i>	<i>Trichophyton spp.</i>
<i>Citrobacter freundii</i>	<i>Micrococcus luteus</i>	<i>Candida albicans</i>	<i>Feline Herpesvirus</i>	
<i>Enterococcus hirae</i>	<i>Ornithobacterium</i> <i>rhinotracheale</i>		<i>Hepatitis B Virus</i>	
<i>Enterococcus faecali</i>			<i>HIV</i>	
<i>Enterococcus faecium</i>	<i>Pasteurella multocida</i>		<i>IBD Virus</i>	
<i>Cronobacter (Enterobacter)</i> <i>sakazakii</i>	<i>Proteus vulgaris</i>		<i>Newcastle Disease Virus</i>	
	<i>Pseudomonas aeruginosa</i>		<i>Rabiesvirus</i>	
<i>Escherichia coli</i>	<i>Salmonella abony</i>			
<i>Klebsiella pneumonia</i>	<i>Salmonella choleraesuis</i>			
<i>Legionella spp.</i>	<i>Salmonella typhi</i>			
<i>Leptospira spp.</i>	<i>Staphylococcus epidermidis</i>			
<i>Listeria monocytogenes</i>	<i>Streptococcus pyogenes</i>			

The F10SC MIC Values

Test organism	Concentration of F10SC (dilution) that resulted in complete visual inhibition of the Test organism = MIC value
<i>Pseudomonas aeruginosa</i> - ATCC 27853	A dilution of 1/1000
<i>Escherichia coli</i> - ATCC 25922	A dilution of 1/4000
<i>Staphylococcus aureus</i> - ATCC 25923	A dilution of 1/16000
<i>Klebsiella pneumoniae</i> - ATCC 10031	A dilution of 1/4000
<i>Staphylococcus aureus</i> - MRSA Local isolate	A dilution of 1/16000
<i>Pasteurella multocida</i> - Local isolate	A dilution of 1/16000
<i>Enterococcus faecalis</i> - ATCC 29212	A dilution of 1/16000
<i>Salmonella choleraesuis</i> , Serotype typhimurium - ATCC 13311	A dilution of 1/8000

The F10 products have been challenge tested using several International Standards protocols including; AFNOR (French), EN(EU), SANS (SA), APVMA (Aus), DEFRA (UK) and AOAC/EPA (USA) by accredited (GLP) laboratories .

Mode of Action (Antimicrobial Action)

The main components are cell poisons and act on the cell membrane rupturing it with loss of essential components. Additional activity is also via the other agents in F10 where they aid the penetration of the cell wall or spore wall.

F10, as with other disinfectants, is affected by the presence of gross organic matter therefore cleaning before use is always recommended, which is well described in the user guidelines.

Safety (Toxicity)

A series of studies were carried out over 2007 and 2008 in accordance with the test requirements as specified by OPPTS 870.1000, the USA's EPA Health Effects Test Guideline for acute toxicity testing. All studies were subject to an independent GLP compliance audit and covered acute oral, dermal and inhalation toxicity, eye and dermal irritation, skin sensitization over a number of concentrations.

The studies showed that at recommended dilutions of 1:100 upwards, i.e. environmental general purpose disinfection, high level disinfection, resistant viruses and sterilisation concentrations, they were for practical purposes non-toxic.

In addition a 7 week peer reviewed residues study (avian model) revealed no build-up in tissues or organs.

Non-corrosive. Free Rinsing. Storage Stability. Water Insoluble Matter

Complied with the Test Standards (SABS 1592, 6.10, 6.11, 6.12, 6.13)

Biodegradable

Zero rating at use dilutions to EU Standards

Shelf Life

Pack concentrate – 2 years
Capped dilutions – 8 months

Equipment friendly

Keymed / Olympus approved

Aldehyde, chlorine free



ENVIRONMENTAL APPLICATION PRODUCTS

ENVIRONMENTAL APPLICATION PRODUCTS

All the environmental application products have the same F10 core actives in varying concentrates to meet the application and ease of use needs

F10SC VETERINARY DISINFECTANT (Reg No G 3070, Act 36/1947) (Reg No Act 29 GNR 529/29990/040/150)

- High level, complete spectrum hard surface disinfectant, air sanitizer and sterilizing solution with a kill rate $> \log_6$ (exceeding 1,000,000 times reduction in cell counts).
- Safe and effective high level disinfection of all pre-cleaned hard surfaces e.g.;
 - examination tables
 - work surfaces
 - trolleys
- Over spraying of;
 - clean cages
 - litter trays
 - food and water bowls
 - equipment
- Fogging to eliminate air-borne micro-organisms and disinfect air spaces, entire rooms and/or hard to reach surfaces.
- Fogging can safely be done in the presence of humans and animals.
- Safe and practical dilution rates - **General Purpose Disinfection 1:500 (2ml/l), High Level Disinfection 1:250 (4ml/l), Resistant Viruses and Bacterial Spores 1:100 (10ml/l)**
- Available in 200 ml, 1 litre & 5 litre concentrate.



F10SCXD VETERINARY DISINFECTANT / CLEANSER (Reg No G 3073, Act 36/1947) (Reg No Act 29 GNR 529/29990/040/150)

- Complete spectrum bactericidal, fungicidal, virucidal and sporocidal compound with a kill rate $> \log_6$ (exceeding 1,000,000 times reduction in cell counts).
- Safe and effective cleansing whilst reducing the microbial load.
- Cleaning and disinfection of;
 - Floors
 - Walls
 - Tiles
 - Kennels/cages
 - Food and drink bowls
 - Bedding
 - Tables and basins
- Washing of instruments and et-tubes post op.
- Safe and practical dilution rates - **General Purpose Disinfection 1:500 (2ml/l), High Level Disinfection 1:250 (4ml/l), Resistant Viruses and Bacterial Spores 1:100 (10ml/l)**
- Green, soapy, slight pine fragrance.
- Available in 200 ml, 1 litre and 5 litre concentrate.



F10 AEROSOL FOGGER (Reg No Act 29 GNR 529/29990/040/150)

- 500 ml single use canister for complete room disinfection with a kill rate $>\log_5$ (exceeding 100,000 reduction in cell counts).
- Quick, easy and effective disinfection of;
 - air spaces
 - all surfaces, walls, ceilings
 - hard to reach areas
- One canister per 35 cubic meter.
- Self-evacuation within 5 minutes.
- Re-entry after another 10 min or even sooner.
- Do not use in the presence of animals.
- Rust inhibitor – equipment friendly.
- Flammable.



F10 DISINFECTANT AEROSOL (Reg No Act 29 GNR 529/29990/040/150)

- 500 ml canister with spray/release nozzle for HLD of hard surfaces and difficult to reach areas.
- Quick and convenient.
- Highly cost effective.
- For HLD of trolley, work surfaces, laminar flow cabinets, tubing.
- Contains rust inhibitor – equipment friendly.
- Flammable.



F10 DISINFECTANT SURFACE SPRAY WITH INSECTICIDE

(Reg No Act 29 GNR 529/29990/040/150)

- Disinfects hard surfaces and repel insects.
- Long acting, broad spectrum biocide (F10 core actives) with a kill rate $>\log_5$ (exceeding 100,000 times reduction in cell counts) and insecticide 0.25% Cypermethrin combination.
- Excellent residual action of 10 – 14 days.
- Used in animal housing, clinics, labs and hospitals to disinfect surfaces and both kill and repel flies, mosquitoes, ticks, mites, biting midges, ants and other insects.
- Water-soluble.
- Avoid contact with domestic cats.
- Available in 1 litre, 5 litre and 25 litre.





F10 STERILANT WITH RUST INHIBITOR (Reg No Act 29 GNR 529/29990/040/150)

- High performance, surface-acting, biocidal sterilant with a kill rate of $> \log_5$ (100,000 times reduction in one pass).
- F10 core actives with rust inhibitor (effective against rusting/pitting on carbon steel for periods longer than 10 days).
- For the rapid cold sterilization of heat sensitive devices and surgical instruments;
 - stainless steel instruments
 - flexible and rigid endoscopes
 - urinary catheters
 - endotracheal tubes
 - suture needles
 - latex drains
 - clipper blades
 - sensitive dental, orthopedic and ophthalmology instruments
- No rinsing needed.
- Available in 5 litre RTU.



F10 WIPES (Reg No Act 29 GNR 529/29990/040/150)

- Biodegradable cleansing wipes impregnated with the F10 core actives, therefore delivering high levels of disinfection.
- They are ideal for the cleaning and sanitizing of hands, wiping and disinfection of thermometers and medical devices such as endoscopes and the cleaning and disinfection of high touch areas e.g. telephones, key boards, shopping trolleys, toilet seats.
- The wipes can be used to effectively and safely prevent or treat cutaneous infections in areas that are difficult to access e.g. skin folds, interdigital spaces as well as the external ear canals.
- Available in 100 wipes per pot, or in 100 wipe refill packs.



F919SC BIOFILM REMOVER

- Alkaline blend of surfactants plus sequesterants and detergents.
- Buffered for optimal activity.
- Emulsifying action for removing heavy soiling, protein, fats, natural oil deposits as well as biofilm from hard surfaces and equipment.
- Safe to use on all surfaces and equipment.
- Mechanism of action is not reliant upon a mechanical brushing/scrubbing action, but interacts chemically with the organic film to release it from the surface and take it up into suspension where it can be washed away. The clean surface can then be effectively disinfected.
- Applications;
 - Hard surfaces in medical and veterinary facilities
 - Hard surfaces in medical and veterinary facilities
 - Animal Housing
 - Pipelines and drains
 - Tubing (e.g. ET Tubes, anaesthetic tubes)
- Available in 1 litre, 5 litre and 25 litre concentrate (dilute as necessary 1:50 - 1:200).



F10 ODOUR ELIMINATOR (Reg No Act 29 GNR 529/29990/040/150)

- Hard surface and air space high level disinfectant with a kill rate $>\log 6$ (exceeding 1,000,000 times reduction in cell counts).
- Slight pine fragrance.
- Ideal for eliminating odours such as urine.
- Daily overspray of cat litter to eliminate odours and extend its usage time.
- For soaking of bedding and can safely be added to washing machines for freshness and disinfection.
- Can safely be sprayed into the air or on surfaces and fabrics e.g. car upholstery, furniture.
- Available in RTU 250 ml, 500 ml and 5 litre.



SKIN DECONTAMINATION PRODUCTS

SKIN DECONTAMINATION

F10 SKIN PREP (Reg No G 3105, Act 36/1947)

- Broad spectrum, fast-acting pre and post-operative surgical spray for high level disinfection of the surgical site with a kill rate $>\log_6$ (exceeding 1,000,000 times reduction in cell counts).
- F10 core actives plus 20 % alcohol for quick-drying of the surgical site.
- Non-irritating – can safely be used on scrotum of dogs and cats.
- Non-staining, but bright blue colour makes it easy to identify.
- Available in RTU 5 litre bottles.



F10 HAND SCRUB

- Surgical hand scrub.
- Patient pre-operative skin preparation.
- Contains the F10 core actives with high levels of skin care components and is therefore broad spectrum effective, yet safe and mild.
- Proven zero skin irritation hazard on both intact and abraded skin.
- Fast-acting and will eliminate gram positive bacteria, e.g. Staphylococcus spp in 15 seconds and gram negative, e.g. Clostridium difficile, Pseudomonas spp. and yeasts, e.g. Candida albicans in 30 seconds.
- For a contact time of 1 minute, F10 Hand Scrub will achieve a $>\log_8$ (exceeding 100,000,000 times reduction in cell counts) and after repeated challenges still achieve $>\log_7$ - 99.99999 % kill for a residual period of 3 hours.
- It is an ideal alternative to preparations containing chlorhexidine or iodine and will not cause skin irritations.
- Available in RTU 500 ml and 5 litre bottles.



F10 HAND GEL

- Waterless antiseptic agent ideal for swift hand disinfection.
- F10 core actives with 35% alcohol for quick drying with a kill rate $>\log_6$ (exceeding 1,000,000 times reduction in cell counts).
- Broad-spectrum and fast-acting.
- Forms an invincible glove to provide long-lasting residual protection.
- Higher emollient levels than most hand gels and is therefore kind to the skin, even after frequent use.
- Available in RTU 100 ml, 500 ml and 5 litre bottles.



F10 ANTISEPTIC LIQUID SOAP

- Patient preoperative skin preparation. A fast-acting, broad-spectrum, and persistent antiseptic-containing preparation that substantially reduces the number of microorganisms on intact skin.
- Antiseptic handwash. An antiseptic preparation designed for frequent use; it reduces the number of microorganisms on intact skin to an initial baseline level after adequate washing, rinsing, and drying; it is broad-spectrum, fast-acting, and persistent.
- Available in 500 ml and 5 litre bottles.

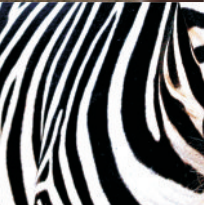


F10 TWO IN ONE HAND CREAM

- The F10 Two in One Hand Cream is a combination product containing skin care moisturizers and a sanitizer based upon the core actives of the F10 disinfectants. It will restore the skin to its natural suppleness and is rapidly absorbed to leave the skin with a soft silky feel that will last for hours.
- Available in 250 ml and 500 ml.



PRODUCTS FOR BIOSECURITY IN LABS



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