



Terminal Hygiene Programme for Pig Houses

STAGE 1 DRY CLEANING

- Remove all detachable equipment/structures (pen divisions, slats, feeders and drinkers) from the house.
- Use a brush/scrapper to remove surface debris (faecal matter, residual feed, dust and cobwebs) from house surfaces (ceilings, walls, floor, passageways and ventilation system).
- Brush/scrape equipment/structures previously removed from the pen.

STAGE 2 DISINFECTION OF WATER SYSTEM

- Drain the water system from the header tanks to the most distant drinkers.
- Remove gross debris from the tank.
- Refill the header tank and water lines with selected disinfectant solution prepared to the recommended concentration (Table 1).
- Allow the disinfectant solution a contact time of at least 10 hours in the water system.
- Drain the disinfectant solution and thoroughly flush lines with water.
- Refill the water system with clean water.

Table 1 : Disinfectant and water systems.

Disinfectant	Dilution Rate		Minimum Contact Time (hours)
	Terminal Disinfection (no pigs present)	Continuous Disinfection (pigs present)*	
Intra Hydrocare	2% (1:50)	0.025% (250ml/1000 litres)	10
Virkon S	1% (1:100)	0.1% (1:1000)	1
Hyperox	1% (1:100)	Not applicable	1

* NOTE: recommendation for continuous disinfection of water consumed when pigs are present in house are also included in this table.

STAGE 3 DETERGENT APPLICATION

- Pre-soak all surfaces, including removed equipment/structures, with clean water for one hour.
- Apply detergent solution, using a low pressure applicator, at the recommended dilution rate (Table 2).
- Pay particular attention to areas that are difficult to reach (ledges, corners, cracks pipes and beams).
- Allow the detergent solution a contact time of at least 20 minutes before power-washing all treated surfaces.

Table 2 : Detergent application.

Detergent	Dilution Rate	Application Method	Application Rate (ml/square metre)	Minimum Contact Time (minutes)
Biosolve E	1:100 (1%)	Spray	500	20
		Foam	300	
Intra Power Foam	1:20 to 1:33 (3-5%)	Foam		10-20



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STAGE 4 DRYING (POST DETERGENT APPLICATION)

- Allow all surfaces to dry thoroughly before disinfection is carried out.
- If disinfectant is applied to a wet surface, dilution and run off of the disinfectant will occur, limiting the efficacy of disinfection.

STAGE 5 DISINFECTION

- Prepare the disinfectant solution at the recommended concentration (Table 3).
- Use either a knapsack sprayer or pressure washer on a low pressure setting (300psi) to disinfect all house surfaces.
- Start with the ceiling/roof, followed by the walls (top to bottom) and finally the floor. Work from one end of the building to the other.
- Apply the disinfectant solution evenly until all surfaces are thoroughly wet, to the point of drip or run off (see Table 3 for application rates).
- Pay particular attention to areas that are difficult to reach (ledges, corners, cracks, pipes and beams).

Table 3: Disinfection

Disinfectant	Dilution Rate	Application Rate ml/m ²	Minimum Contact Time (minutes)
Virkon S	1% (1:100)	300	120
Hyperox	1% (1:100)	300	60
Intra Multi-Des	0.25-0.5% (1:200- 1:400)		10
Interkokast concentrate (Parasite Control)	1:50 (2%)	100 - 400	120

STAGE 6 DRYING (POST DISINFECTION)

- Allow pen to dry thoroughly before pigs are transferred into the pen.

STAGE 7 FUMIGATION

- Fumigate or thermally fog the house, after it has been sealed, using Intra Muti-Des or Formalin.
- Re-open house after 24 hours and then ventilate well.

STAGE 8 FOOT BATHS

- Place freshly prepared foot baths, containing a 1% Virkon S solution, at all entry and exit points of the house.

SAFETY PRECAUTIONS FOR OPERATORS

Full face mask, chemical protective clothing and gloves should be worn by all personnel handling disinfectant.