

מידע שימושי לגבי וירקון S-למניעת ניוקסל ושפעת

- רמת התחלואה והתפשטות המהירה מחייבים התייחסות מיידית וחד משמעית.
- וירקון S הינו חומר החיטוי היחיד שנבדק אושר ובשימוש עשרות מדינות לטיפול בהתפרצויות ובחיטוי שוטף.
- וירקון אינו מסוכן לאדם ולבעל החיים, (מאושר גם כאורגאני), מהיר פעולה, רחב טווח ובטוח לסביבה.
- וירקון S ניתן ליישום בצורה הבאה:
- בריסוס חלל על גבי בעלי חיים ועופות,
- במניעה על ידי הוספה למי השתייה,
- בשטיפת ציוד, חיטוי נעליים, כלי רכב וחיטוי המשרד מדי יום!
- ניקוי ושטיפת מבני משק,
- חיטוי בריסוס באמצעות טרקטורי ריסוס.

Virkon[®] S - Selected By The Experts

Selected and recommended by government & NGOs globally for livestock disease control.



Virkon® S – Emergency Disease Control



Virucidal Activity

- פעילות כנגד נגיפים -

VIRUS FAMILY	POULTRY DISEASE/DILUTION	PIG DISEASE/DILUTION	OTHER COMPARATIVE ORGANISMS/DISEASES
Adenoviridae	Egg drop syndrome – 1:100		Infectious canine hepatitis (ICH) - 1:100
Arenaviridae			Lassa fever – 1:200
Arteriviridae		PRRS – 1:500	
Asfarviridae		African Swine Fever – 1:800	
Astroviridae	PEMS – 1:67		
Baculoviridae			White Spot Syndrome – 9ppm
Birnaviridae	Gumboro – 1:100		
Bunyaviridae			Rift Valley virus – 1:400
Circoviridae	Chicken anaemia – 1:250	PCV2 (incl. PMWS) – 1:200	
Coronaviridae	Infectious bronchitis – 1:100	TGE – 1:100	Canine coronavirus
Flaviviridae		Classical Swine Fever – 1:150	West Nile virus – 1:250
Herpesviridae	Marek's disease – 1:200	Aujeszky's disease – 1:100	
Orthomyxoviridae	Avian influenza – 1:320		Equine influenza
Paramyxoviridae	Newcastle disease – 1:280		Parainfluenza (kennel cough) 1:100
Parvoviridae			Canine parvovirus – 1:100 Feline panleucopaenia – 1:100
Picornaviridae		FMD – 1:1300	Teschen Talfan virus
Poxviridae	Avian poxvirus		Bovine pseudocowpox virus 1:300
Reoviridae	Avian reovirus – 1:100	Calf rotavirus – 1:100	
Retroviridae	Avian leucosis virus – 1:200		Equine infectious anaemia virus
Rhabdoviridae			Rabies virus – 1:600

Bactericidal, Fungicidal & Sporocidal Efficacy Data

AGENT TESTED	DILUTION	AGENT TESTED	DILUTION	AGENT TESTED	DILUTION
BACTERIA					
Actinobacillus pleuropneumoniae	1:200	Haemophilus somnus	1:100	Salmonella enteritidis PT4	1:100
Bacillus cereus	1:100	Klebsiella pneumoniae	1:200	Salmonella thomasville	1:200
Bordetella avium	1:100	Klebsiella oxytoca	1:100	Salmonella typhimurium DT104	1:200
Bordetella bronchiseptica	1:150	Lawsonia intracellularis	1:100	Serpulina hyodysenteriae	1:400
Brucella abortus	1:100	Listeria monocytogenes	1:100	Serratia marcescens	1:200
Campylobacter coli	1:100	Mycoplasma gallisepticum	1:100	Shigella sonnei	1:100
Campylobacter jejuni	1:100	Mycoplasma hyorhinis	1:800	Staphylococcus aureus	1:100
Campylobacter pyloridis	1:100	Ornithobacterium rhinotracheale	1:100	Staphylococcus epidermidis	1:100
Chlamydomphila psittaci	1:100	Pasteurella haemolytica	1:100	Staphylococcus intermedius	1:100
Clostridium perfringens	1:100	Pasteurella multocida	1:150	Streptococcus equi	1:100
Dermatophilus congolensis	1:100	Proteus spp	1:200	Streptococcus faecalis	1:100
Enterobacter cloacae	1:200	Pseudomonas aeruginosa	1:100	Streptococcus suis	1:150
Erysipelothrix rhusiopathiae	1:100	Pseudomonas mallei	1:200	Streptococcus zooepidemicus	1:100
Escherichia coli O157:H7	1:100	Salmonella arizona	1:100	Taylorella (Haemophilus) equigenitalis	1:400
Eubacterium suis	1:200	Salmonella choleraesuis	1:120		
FUNGI				SPORES	
Aspergillus fumigatus	1:100	Microsporium canis	1:300	Aspergillus niger	1:100
Aspergillus niger	1:100	Trichophyton gypseum	1:200	Bacillus cereus	1:100
Candida albicans	1:100	Trichophyton mentagrophytes	1:300	Bacillus subtilis	1:100
Malassezia pachydermatis	1:100	Trichophyton rubrum	1:200	Clostridium sporogenes	1:100

Virkon® S – the only disinfectant to achieve an effective kill against PEMS-Associated Astrovirus in a practical time.
 וירקון S – קטילה מהירה

Product	Active constituent	Incubation time	Inactivation [^]
Untreated control	-	-	0/10
Poul Phene	Phenolic	2 hours	0/10
Poul Phene	Phenolic	Overnight	4/10
Cresto Klean	Phenolic	Overnight	0/10
Environ	Phenolic	Overnight	2/10
Synergize	Quaternary ammonia	2 hours Overnight	4/10 4/10
Tryad	Quaternary ammonia	Overnight	0/10
Lysol	Quaternary ammonia	Overnight	0/10
DC&R	Aldehyde	Overnight	0/10
Formaldehyde	-	Overnight	10/10
Bleach	Hypochlorite	Overnight	6/10
Triton X-100	Non-ionic detergent	2 hours	0/10
B-Propriolactone	Hydracrylic acid beta-lactone	Overnight	10/10
Methanol	Alcohol	Overnight	10/10
Virkon® S	Peroxymonosulphate	30 minutes	10/10

Inactivation of an Astrovirus Associated with Poult Enteritis Mortality Syndrome

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וירקון למניעה של ניוקסל (המאמר מצורף למייל- לקריאה נוחה)

DAHS Technical News Bulletin



Unique USDA study highlights Virkon® S on-farm efficacy against viruses

Leading researchers at the United States Department of Agriculture (USDA) Centres for Epidemiology and Animal Health have confirmed the excellent on-farm efficacy of DuPont™ Virkon® S in eradicating exotic Newcastle Disease (END) virus in a recent *Journal of Veterinary Diagnostic Investigations* paper. The study, headed-up by Brian McCluskey, was devised to cover over 50 infected non-commercial poultry farms after the disastrous South Californian END virus outbreaks of 2002-3. In this broad-reaching field research, the authors showed that Virkon® S was 100% effective in eradicating END virus and they concluded that the need for costly sentinel bird placement was eliminated.¹

Uniquely, the use of the sentinel birds has validated the excellent on-farm activity of Virkon® S against viruses. Compared with easily detected bacterial infections, such viral challenges have to be demonstrated through live animal models and this assessment was the first of its kind.

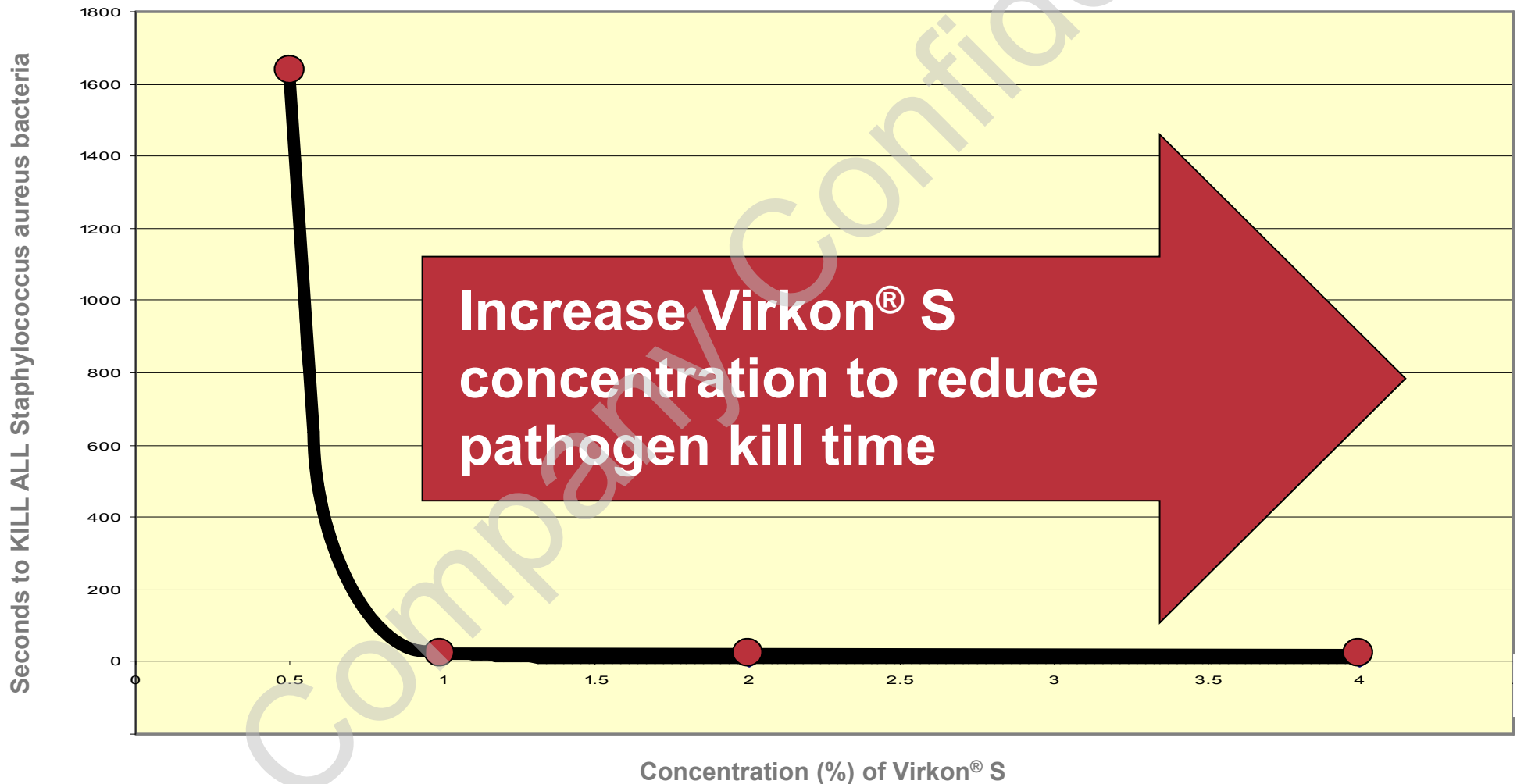
The use of sentinel chickens in establishing the negative status of commercial poultry flocks depopulated due to exotic Newcastle Disease virus has in the past been considered to be an economically beneficial process. However, the costs and benefits of using sentinel chickens in non-commercial operations were in question. The objective of the study was to use the sentinel chickens to evaluate whether adequate cleaning and disinfection coupled with an appropriate time period without susceptible poultry species on the premises would eliminate END virus and preclude the need for sentinel chickens before declaring the operation disease free.

The USDA Taskforce used post-infection biosecurity procedures on the 53 non-commercial farms after the END virus outbreaks. The farms had been classified as either 'infected' or 'dangerous contacts' and after completion of the biosecurity measures, owners had waited 90 days before re-populating their farms.

Prior to the sentinel birds' arrival on the farms, all feeders and waterers were cleaned and disinfected with 1% Virkon® S and clean shavings put down for bedding. In all, 546 sentinel birds were placed, a

Virkon[®] S disinfects more quickly with small increases in concentration

Evaluation of in vitro efficacy of Virkon[®] - Gasparini, Pozzi, Magnelli et al (European Journal of Epidemiology 11: 193-197 1995)



N.B. Exact time will depend upon pathogen type, initial challenge, organic challenge and temperature but fundamental relationship will remain the same



ריסוס וירקון בחלל אוויר על גבי בע"ח (ההתוויה רשומה בישראל!)
Aerial Misting Disinfection in the Presence of Animals

- Virkon[®] S can be misted in the presence of livestock or poultry at a dilution rate of 1:200 (0.5%).
- A cold fogger, mister or knapsack sprayer should be used, as the noise of a thermal fogger may disturb the animal's behaviour.
- Always read the Virkon[®] S label carefully to ensure regulatory compliance.



Study to test the effect of prolonged spraying of livestock with Virkon[®] S
D.W.B. Sainsbury, MA, PhD, BSc, MRCVS - Dept. of Clinical Veterinary Medicine, University of Cambridge, United Kingdom

Virkon[®] S Water System Disinfection

Terminal and Continuous Disinfection

All water systems can potentially contain some viral and bacterial contamination, especially header tanks where dust and debris can accumulate. Disinfection will clean the system and eliminate viruses, bacteria and fungal growth.



Water System Disinfection	Dilution Rate	Application
Terminal Disinfection	1:200 – 1:100	Isolate header tank at the mains and drain off to drinker points farthest from tank. Clean out any gross soiling and debris. Refill with water and add the appropriate volume of Virkon [®] S powder, thoroughly stir and leave for 10 minutes. Flush system through to all drain-off points and leave for a further 50 minutes before draining system and refilling with clean water.
Continuous Disinfection	1:1000	Dose header tank as required or apply through water system dosing equipment.

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