



# VIRUQUAT 300

## Broad Spectrum Disinfectant Blend of Glutaraldehyde & Quaternary Ammonium Compound

Viruquat 300 is a powerful disinfectant combining the dual biocidal activities of glutaraldehyde and quaternary ammonium compound for a broad spectrum of activity. The disinfectant is ideally suited for preventative, terminal and continuous biosecurity protocols.

### Why choose Viruquat 300?

- Independently proven efficacy against bacteria, viruses and fungi
- Proven effective against Avian Influenza
- Proven effective against African Swine Fever
- DEFRA approved for Disease of Poultry, General orders and Foot and Mouth disease (details on page 2)
- Residual activity on porous and semi porous hard surfaces
- Non-corrosive on hard surfaces
- Retains activity in the presence of organic matter
- Formulated to overcome hard water conditions
- Economic in use at guided dilutions

### Applications

- Preventative, Terminal and Continuous biosecurity protocols
- Wet spray or foam spray of all hard surfaces in animal housing
- Immersing removable equipment for disinfection
- Boot Dip and Vehicle Disinfection
- Thermal fog as a secondary disinfection (subject to local regulations)

### Recommended Routine Disinfection dilutions.

For optimal performance apply to a pre-cleaned, dry surface. Pre-clean with a Neogen detergent such as Farm-Foam Evo or Sureclean.

Area of disinfection	Dilution	Application
General Surface Disinfection	1:100 to 1:300	Prepare a Viruquat 300 solution diluted at 1:100 to 1:300 and apply at the rate of 300 ml per square metre as a wet spray or through suitable foaming equipment.
Removable Equipment	1:300	Immerse in a Viruquat 300 solution diluted at 1:300 for a maximum of 30 minutes, remove, rinse with clean water and allow to dry before putting back in place.
Boot Dips	1:100	Prepare a Viruquat 300 solution diluted at 1:100. Replace twice per week or when heavily soiled.
Vehicle Disinfection	1:100	For automated drive-through sprayer system or via pressure washer/knapsack sprayer prepare a Viruquat 300 solution diluted at 1:100.
Thermal Fog	1:4	Prepare a Viruquat 300 solution diluted at 1:4 applied at 9-10l/1000m <sup>2</sup> with associated thermal fogging equipment, such as pulsFOG K10 or Igeba TF35/TF90. Allow 24 hours before placement of birds or livestock after the application.



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## Specification

General properties	A red clear liquid blend of glutaraldehyde and quaternary ammonium compound
Pack Sizes	5 L, 25 L, 200 L and 1000 L IBC
Storage Conditions	Use biocides safely. Always read the label and safety data sheet before use, providing the necessary personal protective equipment to operators

## Efficacy Data

Species	Pathogen	Pathogen Family	Micro-organism	Disease	Test	Dilution	Temp' °C	Contact Time
General	Bacteria	Gram-positive bacteria	<i>Staphylococcus aureus</i>	Abscesses, arthritis, mastitis, skin conditions	EN 1656	1 to 300	20	30
General	Bacteria	Gram-negative bacteria	<i>Pseudomonas aeruginosa</i>	Respiratory signs in poultry/mastitis in cows/otitis in dogs	EN 1656	1 to 300	20	30
General	Bacteria	Gram-positive bacteria	<i>Enterococcus hirae</i>	Endocarditis and septicaemia in broiler flocks	EN 1656	1 to 300	20	30
General	Bacteria	Gram-negative bacteria	<i>Escherichia coli</i>	Intestinal challenges leading to diarrhea and dehydration	EN 1656	1 to 300	20	30
General	Bacteria	Gram-negative bacteria	<i>Salmonella tyhimurium</i>	Infection in chicks younger than 2 weeks old results in poor growth rate, severe enteric and systemic disease with a high mortality rate	EN 1656	1 to 300	20	30
General	Bacteria	Gram-negative bacteria	<i>Salmonella Infantis</i>	Infection in broiler chicks causing severe diarrhea and decreased appetite	EN 1656	1 to 300	20	30
General	Bacteria	Gram-negative bacteria	<i>Campylobacter jejuni</i>	Intestinal challenges leading to foodborne zoonosis	EN 1656	1 to 300	20	30
Cattle	Bacteria	Gram-positive bacteria	<i>Mycobacterium bovis</i>	Causative of bovine tuberculosis (bovine TB)	EN 14204	1 to 50	10	60
Poultry	Bacteria	Gram-positive bacteria	<i>Mycobacterium avium</i>	Causative of poultry tuberculosis	EN 14204	1 to 75	10	30
Poultry	Yeast	Trichocomaceae	<i>Aspergillus niger</i>	Aspergillosis is most often a respiratory infection in chickens	EN 1659	1 to 20	20	15
Poultry	Yeast	Saccharomycetaceae	<i>Candida albicans</i>	Mycotic disease of the digestive tract of various avian species	EN 1657	1 to 250	10	30
Poultry	Enveloped virus	<i>Paramyxoviridae</i>	Newcastle disease virus	Highly infectious disease to the respiratory, nervous and digestive systems	DEFRA	1 to 100	4	30
Poultry	Enveloped virus	<i>Orthomyxoviridae</i>	Avian Influenza virus H5N1	Highly pathogenic disease causing high mortality affecting all functions of the birds	DEFRA	1 to 100	4	30
Swine	Non-enveloped virus	<i>Asfarviridae</i>	African swine fever virus	<i>Stavropol 01/08</i> highly infectious strain	FGBNU	1 to 200	20	30
Swine	Non-enveloped virus	<i>Asfarviridae</i>	African swine fever virus	<i>Stavropol 01/08</i> highly infectious strain	FGBNU	1 to 100	20	5
Swine/ Cattle/ Sheep	Non-enveloped virus	<i>Picornaviridae</i>	Foot and mouth disease virus	Highly contagious, infectious and sometimes fatal disease that affects cloven-hoofed animals	DEFRA	1 to 100	4	30
Cattle	Non-enveloped virus	<i>Picornaviridae</i>	Bovine enterovirus/ECBO virus	Endemic in many countries - symptoms: bloody diarrhea, high fever (105–107 degrees), off-feed, mouth ulcers, and often pneumonia	EN 14675	1 to 300	10	30

This disinfectant product has been approved for disinfection of inanimate surfaces where an approved product is required to be used under the control legislation for the following specific disease(s) orders;

- Foot-and-mouth disease at the dilution rate of one part of this preparation plus 100 parts of water;
  - Poultry diseases including avian influenza, influenza of avian origin in mammals, Newcastle disease, paramyxovirus at a dilution rate of one part of this preparation plus 100 parts of water;
- This disinfectant product has also been approved at a dilution of 1 part of this preparation plus 50 parts water for disinfection of inanimate surfaces where General Orders require the use of an approved disinfectant, but this approval **does not** apply to disinfection required under the specific control legislation relating to Swine Vesicular disease, or Tuberculosis disease.

This approval is granted under the Diseases of Animals (Approved Disinfectants) Orders made by the Secretary of State for Environment, Food and Rural Affairs in England, Scottish ministers in Scotland and Welsh ministers in Wales. For confirmation of continuing approval refer to the Defra list of approved disinfectants at <http://disinfectants.defra.gov.uk>

The contents of this container are guaranteed by the manufacturer to be of the same composition and quality as the sample submitted for approval testing.



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