Test Information Sheet

Disinfectant (Range Finding) Efficacy Test
Newcastle Disease Virus

This test is used to evaluate the efficacy of disinfectants in solution against a Newcastle Disease Virus (NDV) and is intended to assist customers in identifying a suitable range of concentrations of their product to submit for Defra approval under the Diseases of Poultry Order. If you wish to submit a disinfectant product for testing, please include a completed Sample Submission Form (available from APHA Scientific).

Please note – The results from this test do not represent disinfectant approval under Defra ‘Diseases of Animals (Approved Disinfectant) Order. For further details of this scheme, please visit our website: www.defra.gov.uk/apha-en/tests-and-services/disinfectant-approvals/

• Method
  • The test method is based on British Standard BS EN 6734:2004: Antimicrobial efficacy of disinfectants for veterinary and agricultural use.
  • The strain of NDV used in this test is Herts 33. Yeast is included in the test as a “soiling agent”, in order to mimic any organic material that may be found when a product is used in the field.
  • The disinfectant product is tested against high levels of NDV at three different dilutions, as specified by the customer. Following a reaction period of 30 minutes at +4°C, the level of virus remaining is then determined.

• Results
  • The dilution of disinfectant that reduces the level of virus by at least 4log₁₀ (10,000) fold is considered to be effective.
  • The efficacy of disinfectant products when used in the field is dependent on many factors and these test results must be used in conjunction with other data when deciding the appropriateness of use of individual products.
  • The turnaround time for this test is 14 days from commencement of the test but there is a four week lead time for preparation of the test system. The results of the test are issued as a signed Certificate of Analysis.

• Quality
  • APHA tests are assured by compliance with the Quality Management System Standard ISO 9001:2008. This test is also accredited to ISO 17025:2005.
  • A copy of the full technical procedure is available if required for regulatory purposes.