

## NDPath™—A Simple Solution To Newcastle Disease Virus Pathotyping



Award Winner

The Newcastle disease virus (NDV) is an economically important poultry virus worldwide which also infects many types of birds. Although this virus is controlled effectively by vaccination and mass slaughtering, sporadic outbreaks still occur.

Various kinds of tests have been developed to distinguish the different strains of NDV. Unfortunately, these tests are often laboratory specific, expensive or tedious and they were not able to distinguish between the vaccine strains (mesogenic and lentogenic strains) and the field isolates (velogenic strains) which are the etiologic agents for the disease. We have developed a novel peptide that can distinguish between vaccinated chickens and those that were infected with the field isolates of NDV.

It is found that this form of NDV typing is not previously reported, and furthermore it is the first invention that can distinguish the velogenic from the mesogenic strains. This invention is therefore useful as a routine diagnostic test to locate the source of an epidemic. In addition, this peptide is able to inhibit the replication of the virus and may be used as an antiviral drug.

NDPath™ is a patent-pending (PI20013687) invention.

**For further information, kindly contact:**

Assoc. Prof. Dr. Tan Wen Siang  
Department of Microbiology  
Faculty of Biotechnology and Biomolecular Sciences  
Universiti Putra Malaysia  
43400 UPM, Serdang, Selangor  
Malaysia  
Tel: +603 8946 6715  
Fax: +603 8943 0913  
E-mail: [wstan@fsas.upm.edu.my](mailto:wstan@fsas.upm.edu.my)



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