

Newcastle Disease

The most comprehensive and innovative range of ELISAs for Newcastle antibody detection on the market



ID Screen® Newcastle Disease Competition

ID Screen® Newcastle Disease Indirect Conventional Vaccines

ID Screen® Newcastle Disease Indirect

ID Screen® Newcastle Disease Nucleoprotein Indirect

An innovative and comprehensive range of ND ELISAs

Kits designed for disease diagnosis or monitoring of vaccination with both recombinant or conventional vaccines.

- The only ELISA validated for monitoring rHVT-F vaccines, the NDVS kit shows high correlation with HI*, while offering superior robustness and reliability.
- When testing layers, all kits (except for NDVS) may be used with the **chloroform-free egg yolk protocol** developed by IDvet. (Egg yolk collection is easy for the veterinarian, and does not generate stress for the animal.)
- **Applicable to both domestic and wild species**, the NDV competitive ELISA is the only cELISA on the market. It offers the best combination of sensitivity and specificity of any commercial NDV ELISA, and is particularly suited to monitoring disease in regions without vaccination.
- **Designed for use as a DIVA* test**, the NDVNP kit specifically detects antibodies to the virus nucleoprotein. This test may be used in combination with the NDVS ELISA to detect natural infection in animals vaccinated with rHVT-F vaccines alone.

** Inhibition of hemagglutination test*

**Differentiation between Infected and Vaccinated Animals*



Specifications

Method	Indirect ELISAs / Competitive ELISA for NDVC
Species	Competitive ELISA: domestic and wild avian species Indirect ELISAs: chickens (broilers, breeders, layers) and turkeys
Specimens	Serum and plasma for all kits Egg yolk for all kits except for NDVS
Coated antigen	NDVS: ND native strain NDVNP: recombinant nucleoprotein NDVS-CV: ND native strain NDVC: ND native strain
Conjugate (concentrated 10X)	For the NDVC cELISA: anti-NDV NP 10x conjugate All other kits: anti-chicken-HRP 10x conjugate

One-of-a kind tests for ND diagnosis and monitoring of vector vaccines

Product name	Indications	Advantages
ID Screen® Newcastle Disease Competition (NDVC)	<ul style="list-style-type: none"> • Epidemiology survey of domestic & wild birds • Control of SPF animals to be sure that your animals are disease-free • Diagnosis of domestic birds in disease-free areas without ND vaccination 	<ul style="list-style-type: none"> • Applicable to both domestic and wild avian species • The only NDV competitive, multi-species ELISA on the market • Offers the best combination of high specificity and high sensitivity of any kit on the market
ID Screen® Newcastle Disease Indirect Conventional Vaccines (NDVS-CV)	<ul style="list-style-type: none"> • Monitoring of conventional vaccine programs (live and killed vaccines) 	<ul style="list-style-type: none"> • Larger spectrum of matrices: in addition to serum and plasma, the kit may be used with egg yolk samples which are easier to collect and cause less stress to the layers
ID Screen® Newcastle Disease Indirect (NDVS)	<ul style="list-style-type: none"> • Monitoring of rHVT-F ND vaccine. More than 80% positivity at 28 dpv with Vectormune® (monitor vaccination before slaughter) • May be used as part of a DIVA* strategy in combination with the NDVNP kit described below (for animals vaccinated with rHVT-F vaccines alone) 	<ul style="list-style-type: none"> • The only commercial ELISA capable of detecting seroconversion to rHVT-F ND vaccines in broilers, breeders, layers and turkeys. • High correlation with HI, but more robust and reliable
ID Screen® Newcastle Disease Nucleoprotein Indirect (NDVNP)	<ul style="list-style-type: none"> • Diagnosis for chicken (broilers, breeders and layers) and turkey • Detect the field virus under rHVT-F-ND vaccination (DIVA) (as does not detect seroconversion to the F protein) 	<ul style="list-style-type: none"> • The only commercial ELISA on the market for the specific detection of NP antibodies

In addition to serum and plasma, all kits (except for NDVS) may be used with egg yolk samples which are easier to collect and cause less stress to the layers.

DIVA* strategy (vaccination rHVT-F vaccines)

Flock status	Expected results with NDVS	Expected results with NDVNP
Unvaccinated, uninfected	NEG	NEG
Vaccinated (rHVT-F), uninfected	POS	NEG
Vaccinated (rHVT-F), infected	POS	POS

Flexible formats : 2, 5 or 10 plates, strip or solid plates

2 plates (2P)	192 reactions
5 plates (5P)	480 reactions
10 plates (10P)	960 reactions



Optimize your quality control with the reference control samples (freeze-dried or ready-to-use)

These reference samples contain significant levels of antibodies to Newcastle disease.

These samples are tested at a threshold dilution to:

- ♦ verify that analytical sensitivity remains constant between runs and operators ;
- ♦ validate sample processing: the freeze-dried sample undergoes both the sample pre-dilution and dilution steps.



References

Evaluation of various serological assays to assess vaccine take & monitor antibody response following vaccination against ND using rHVT-F vector hatchery vaccine. Gardin Y. et al. Poster presented at the 19th WVPAC – World Veterinary Poultry Association Congress – Capetown, Republic of South Africa – September 2015.

Newcastle disease: A persisting worldwide problem. Paniago M., Gardin, Y., Cazaban C., Tatar-Kiss T., Palya V., Mato T., Elattrache J., Lozano F., and Paulet P. Ceva Animal Health. International Poultry Production 24.2 (2016), page 17.

Investigation on the use of a serological DIVA monitoring strategy when a rHVT-F vaccine is used to control ND. Gardin Y., Palya V., Tatar-Kiss T., Lesceu S., Paniago M., Paulet P., Elattrache J., De Wit S. AVMA – AAP convention 2016. August 7, San Antonio, Texas, USA.

FOR MORE INFORMATION OR TO PLACE AN ORDER,
PLEASE CONTACT YOUR LOCAL SALES REPRESENTATIVE OR IDVET

info@id-vet.com

+ 33 4 67 41 49 33

www.id-vet.com