

## Competitive ELISA kit for the detection of anti-nucleoprotein (NP) antibodies.

**Detects antibodies against all Influenza A subtypes and antigenic variants** thanks to the use of a monoclonal antibody against a highly conserved epitope of the Influenza A virus nucleoprotein.

- **Highly sensitive and specific**
- **Convenient multi-species** test applicable to birds, horses, swine and others
- **Easy-to-use**, with results in under 2 hours
- **Comprehensive data analysis** with the IDSoft™ program
- **Positive and negative reference sera** available as internal controls
- **For avian species: may be used with egg yolk samples** which are easier to collect and cause less stress to the layers

### SPECIFICATIONS

<b>Method</b>	Competitive ELISA
<b>Species</b>	Multiple species, including horses, birds, swine and others
<b>Specimens</b>	Serum, plasma or egg yolk
<b>Coated antigen</b>	Influenza A nucleoprotein (NP)
<b>Conjugate</b>	Anti-NP-HRP conjugate (concentrated 10X)

### ORDERING INFORMATION

<b>Product code</b>	FLUACA-2P	FLUACA-5P	FLUACA-10P
<b>Kit format</b>	2 plates	5 plates	10 plates
<b>Reactions</b>	192	480	960
<b>Plate format</b>	12 x 8-well strips	12 x 8-well strips	12 x 8-well strips

### REFERENCES

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### Horses:

1. Kittelberger, R., McFadden, A.M.J., Hannah, M.J., Jenner, J., Bueno, R., Vait, J., Kirkland, P.D., Delbridge, G., Heine, H.G., Selleck, P.W., Pearce, T.W., Pigott, C.J., O'Keefe, J.S., **Comparative evaluation of four competitive/blocking ELISAs for the detection of influenza A antibodies in horses**, Veterinary Microbiology (2010), doi:10.1016/j.vetmic. 2010.08.014.

### Birds:

1. Bertran, K. et al. **Pathogenesis and transmissibility of highly (H7N1) and low (H7N9) pathogenic avian influenza virus infection in red-legged partridge (*Alectoris rufa*)**. Veterinary Research 2011, 42:24.
2. Dundon, W.G., Terregino, C., Tuttoilmondo V., Pizzuto, M., Busani L., Mancin, M., Cattoli, G., Capua I. **Preliminary validation of a commercial Avian Influenza N1 antibody competitive Elisa kit that can be used as part of a Diva strategy**. Epizone 2007, Poland.
3. Molia, S. et al. **Avian influenza in backyard poultry of the Mopti region, Mali**. Trop Anim Health Prod. 2009.
4. Terregino, C. **Evaluation of sensitivity and specificity of a commercial competitive avian influenza type A antibody ELISA kit**, the OIE-FAO and National Reference Laboratory for Newcastle Disease and Avian Influenza, IZS delle Venezie, Legnaro (Padova), Italy.

### Swine :

1. Busquets, N. et al. **Experimental infection with H1N1 European swine influenza virus protects pigs from an infection with the 2009 pandemic H1N1 human influenza virus**. Vet. Res (2010) 41:74.
2. Lange, E. et al. **Pathogenesis and transmission of the novel swine-origin influenza virus A/H1N1 after experimental infection of pigs**. Journal of General Virology (2009), 90, 2119-2123.

### Dogs:

1. De Benedictis, P. et al. **A diagnostic algorithm for detection of antibodies to influenza A viruses in dogs in Italy (2006-2008)**. J. Vet Diagn Invest 22:914-920 (2010).

## ASSOCIATED PRODUCTS

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### Ready-to-use positive serum FLU-C

Product code

MRI-FLUC-RTU

<b>Format</b>	2 ml
<b>Description</b>	Ready to use chicken serum pool containing significant and known antibody level against Avian Influenza virus. For use with the following competitive ELISAs: FLUACA, FLUACH5, FLUACH7, FLUACH9

### **Negative freeze-dried porcine serum**

<b>Product code</b>	MRINEG-PORC
<b>Format</b>	1 ml
<b>Description</b>	Freeze-dried porcine serum negative for various diseases.

### **Ready-to-use chicken negative serum**

<b>Product code</b>	MRINEG-BIRD-RTU
<b>Format</b>	5 ml vial
<b>Description</b>	Ready to use specific pathogen free (SPF) chicken serum pool. Does not contain any antibodies against any avian pathogen. For use with all the IDvet poultry ELISA kits or for RSA testing.