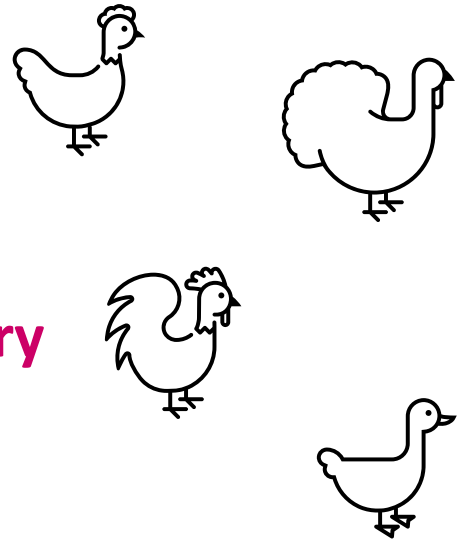


Laboratory diagnosis of infectious diseases of poultry



by Real-Time PCR



The main economically important diseases of poultry

Viral infections:

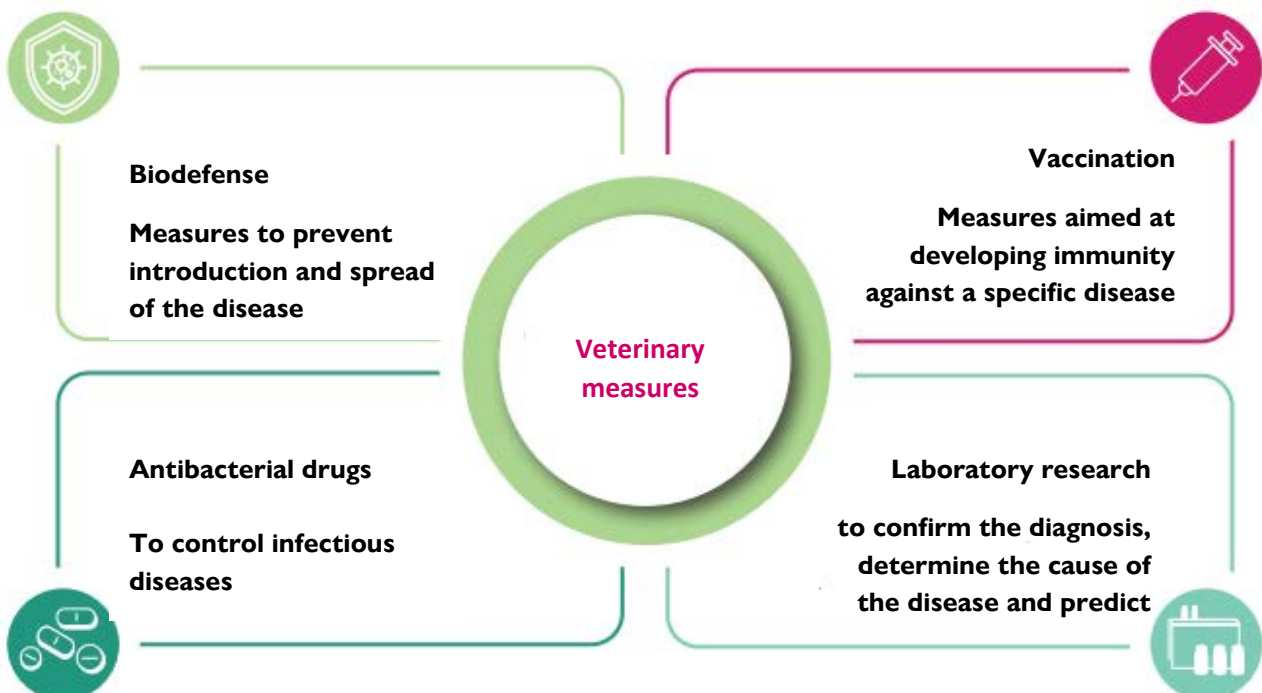
Influenza A/H5/H7/H9
Newcastle disease
Marek's disease
Gumboro disease
793B/Mass/QX infectious bronchitis in chickens
Adenovirus infection
Reovirus infection

Bacterial infections:

Mycoplasmosis
Haemophilus
Ornitobacteriosis
Pasteurellosis
Chlamydiosis (Ornithosis)
Salmonellosis
Clostridiosis and others

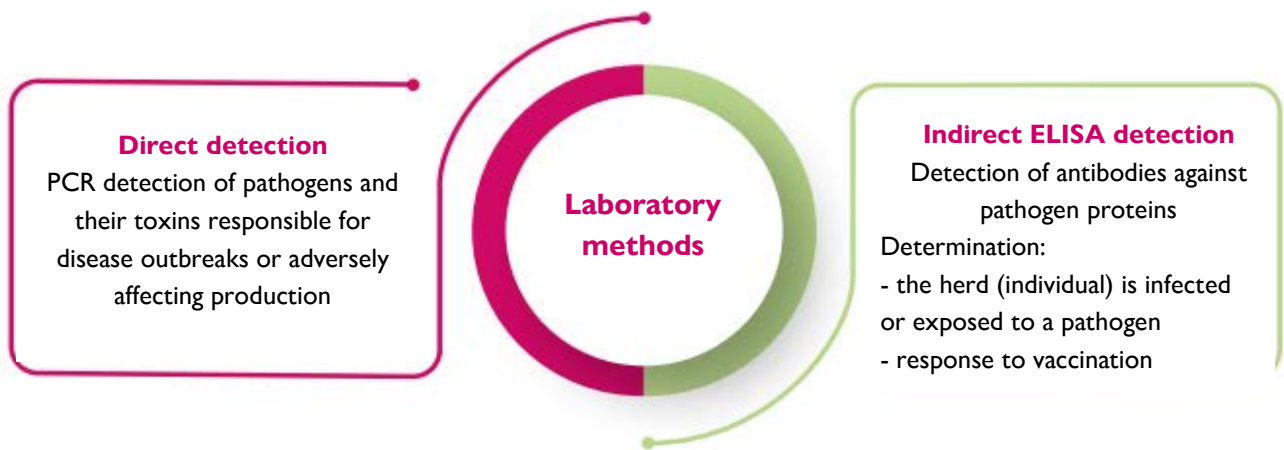


Methods of controlling infectious diseases

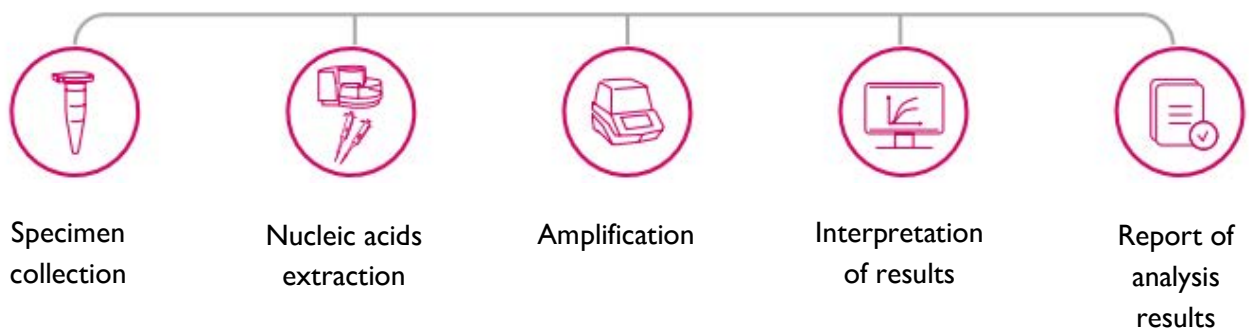


Laboratory testing for the diagnosis of infectious diseases in pigs

Laboratory diagnostics of infectious diseases is based both on the evaluation of the body's immune response, which develops as a result of infection (specific antibodies), as well as on the detection and identification of the pathogen's genetic material in biological samples.



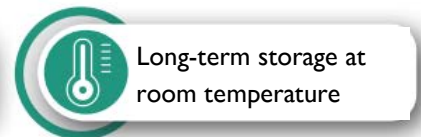
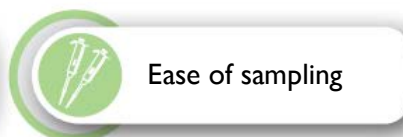
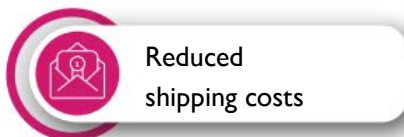
RealBest-Vet Technology: solution for Real-Time PCR diagnostics



Specimen collection

Specimen collection cards (Cat. No. 5899)

are papers with a test sample application area. The area is impregnated with a solution that promotes cell lysis, denaturation of protein complexes and protection of nucleic acids (NA) from the action of nucleases.



Isolation of nucleic acids from a sample of biomaterial is possible in both automatic and manual modes



RealBest DNA-express (Cat. No. 8899) – the fastest method

RealBest-Vet Gamma (Cat. No. 5876) – wide range of specimens



RealBest-Vet Alpha (Cat. No. 5453) – effective NA extraction from whole blood

RealBest-Vet Beta (Cat. No. 5454) – wide range of specimens

Advantages of RealBest-Vet kits for PCR diagnostics of infectious diseases of poultry:

- ✓ Ready Master Mix for PCR/RT-PCR
- ✓ Multiplex analysis
- ✓ Universal amplification protocol
- ✓ Automated interpretation of results
- ✓ PCR analysis automation capability

RealBest-Vet diagnostic kits

Cat.No	Kit name and description	Number of tests
Extraction kits for isolation of nucleic acids		
8889	RealBest DNA-express Rapid DNA extraction kit (15 minutes)	100
5453	RealBest-Vet Alpha DNA extraction kit, for use with KingFisher Flex system	96 (2x48)
5454	RealBest-Vet Beta DNA and RNA extraction kit, for use with KingFisher Flex system	96 (2x48)
5876	RealBest-Vet Gamma DNA and RNA extraction kit, for use with KingFisher Flex system	48 (4x12)
Adenovirus infection detection kit		
5451	RealBest-Vet DNA FAdV Poultry adenovirus DNA detection kit	96
5844	RealBest-Vet DNA FAdV genotype Kit for differential detection of adenovirus DNA serotypes 1, 3, (2, 9, 11), 4, 5, 6, 7, 8a, 8b, 10	96
Kit for detection of Marek's disease		
5433	RealBest-Vet DNA MDV Kit for detection of Marek's disease virus DNA	96
5834	RealBest-Vet DNA MDV/Rispens Kit for differential detection of Marek's disease virus DNA and vaccine strain Rispens (CVI988)	96
Gumboro disease detection kit		
5826	RealBest-Vet RNA IBDV Infectious bursal disease virus RNA detection kit	96
Newcastle disease detection kit		
5805	RealBest-Vet RNA NDV genotype A kit for the detection of avian influenza virus RNA and virulent genotype	96
Influenza virus detection kit		
5838	RealBest-Vet RNA Influenza A Influenza A virus RNA detection kit	96
5839	RealBest-Vet RNA Influenza A H5 RNA detection kit for influenza A virus subtype H5	96
5840	RealBest-Vet RNA Influenza A H7 RNA detection kit for influenza A virus subtype H7	96
5841	RealBest-Vet RNA Influenza A H9 RNA detection kit for influenza A virus subtype H9	96
5842	RealBest-Vet RNA Influenza A/H5 RNA detection kit for influenza A and H5 virus	96
Bordetella detection kit		
5875	RealBest-Vet DNA Bordetella avium, Bordetella hinzii <i>Bordetella avium</i> , <i>Bordetella hinzii</i> DNA detection kit	96

Cat.No	Kit name and description	Number of tests
Ornithobacteriosis detection kit		
5434	RealBest-Vet DNA Ornithobacterium rhinotracheale/Avibacterium paragallinarum Kit for the differential detection of <i>Ornithobacterium rhinotracheale</i> and <i>Avibacterium paragallinarum</i> DNA	96
Kit for the detection of infectious anemia in chickens		
5498	RealBest-Vet DNA CAV Chicken anemia virus DNA detection kit	96
Kit for the detection of infectious laryngotracheitis		
5491	RealBest-Vet DNA GaHV-1 A kit for the detection of DNA of poultry alphaherpesvirus type 1	96
Kit for the detection of infectious bronchitis in chickens		
5458	RealBest-Vet RNA IBV Infectious bronchitis RNA detection kit	96
5808	RealBest-Vet RNA IBV 793B Infectious bronchitis RNA detection kit, strain 793B	96
5835	RealBest-Vet RNA IBV Mass Infectious bronchitis RNA detection kit, Massachusetts strain	96
5836	RealBest-Vet RNA IBV QX Infectious bronchitis RNA detection kit, strain QX	96
Kit for the detection of infectious avian encephalomyelitis		
5814	RealBest-Vet RNA AEV Avian encephalomyelitis virus RNA detection kit	96
Metapneumovirus infection detection kit		
5810	RealBest-Vet RNA aMPV types A, B Kit for differential detection of avian metapneumovirus type A and B RNA	96
Mycoplasmosis detection kit		
5437	RealBest-Vet DNA Mycoplasma synoviae/Mycoplasma gallisepticum Kit for the differential detection of <i>Mycoplasma synoviae</i> and <i>Mycoplasma gallisepticum</i> DNA	96
5850	RealBest-Vet DNA Mycoplasma synoviae/Mycoplasma gallisepticum/Mycoplasma meleagridis Kit for the differential detection of <i>Mycoplasma synoviae</i> , <i>Mycoplasma gallisepticum</i> and <i>Mycoplasma meleagridis</i> DNA	96
Kit for detection of parvovirus infection in geese and ducks		
5849	RealBest-Vet DNA GPV, MDPV Kit for the detection of goose parvovirus and musk duck parvovirus DNA	96
Pasteurellosis detection kit		
5438	RealBest-Vet DNA Pasteurella multocida/Gallibacterium anatis Kit for the differential detection of <i>Pasteurella multocida</i> and <i>Gallibacterium anatis</i> DNA	96

Cat.No	Kit name and description	Number of tests
Reovirus infection detection kit		
5803	RealBest-Vet RNA ARV Avian reovirus RNA detection kit	96
Reticuloendotheliosis/smallpox detection kit		
5449	RealBest-Vet DNA REV Chicken reticuloendotheliosis virus proviral DNA detection kit	96
5450	RealBest-Vet DNA REV Kit for the differential detection of chicken reticuloendotheliosis virus DNA and fowlpox virus proviral DNA	96
Chlamydiosis (ornithosis) detection kit		
5485	RealBest-Vet DNA Chlamydia psittaci <i>Chlamydia psittaci</i> DNA detection kit	96

Types of biospecimen

Disease (causing agent)	Biospecimen					
	FTA cards	Smears and swabs	Organs and tissues	Eggs	Meat and processed products	Feed
Viral infections						
Influenza A/H5/H7/H9	•	•	•	•	•	•
Newcastle disease	•	•	•	•		
Marek's disease	•	•	•	•		
Gumboro disease	•	•	•			
Infectious bronchitis of chickens	•	•	•			
Adenovirus infection	•	•	•			
Reovirus infection	•	•	•			
Bacterial infections						
Mycoplasmosis	•	•	•			
<i>Haemophilus</i>	•	•	•			
Pasteurellosis	•	•	•			
Chlamydiosis	•	•	•			
Salmonellosis	•		•		•	
Clostridiosis	•	•				

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