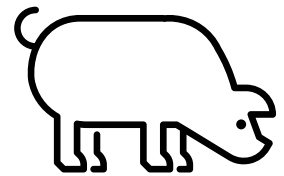


Laboratory diagnosis of infectious diseases of pigs



by Real-Time PCR



The main economically important diseases of pigs

Viral infections:

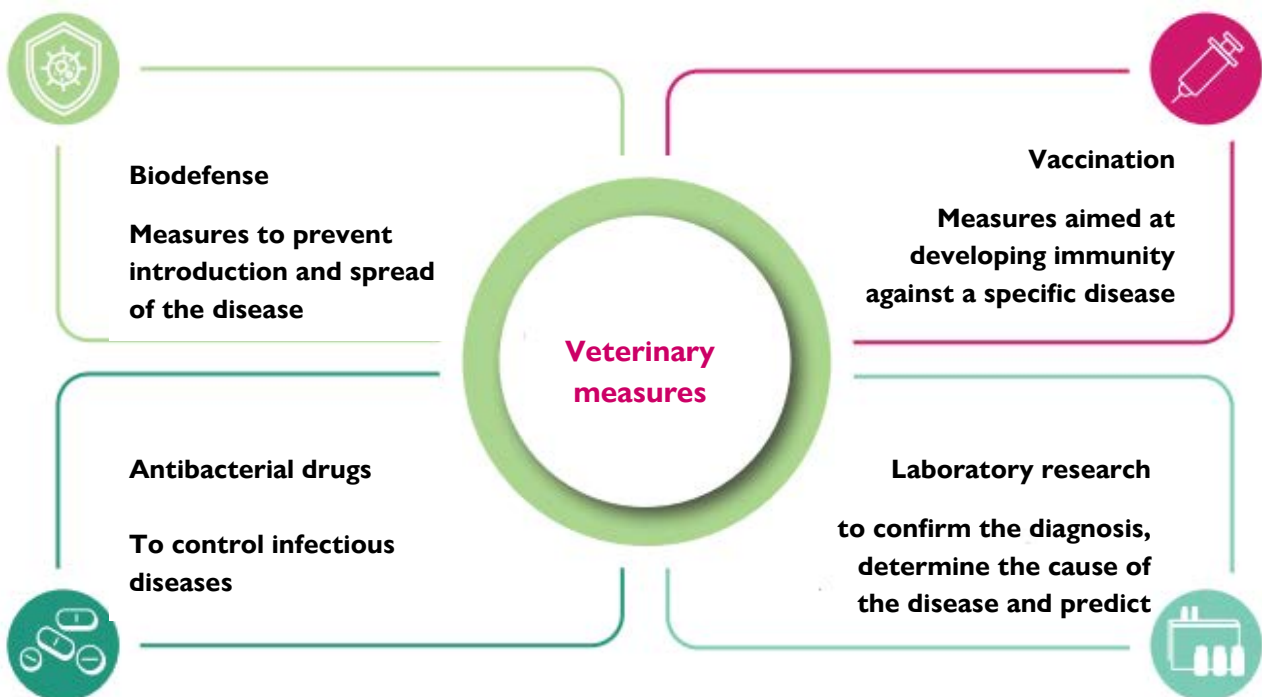
African swine fever (ASF)
Classic swine fever (CSF)
Pig reproductive and respiratory syndrome (PRRS)
Circovirus infection
Aujeszky's Disease
Influenza
Parvovirus infection of pigs
Rotavirus and others

Bacterial infections:

Actinobacillus pleuropneumoniae
Glässer's disease
Mycoplasmosis
Lawsonia intracellularis
Streptococcal infection
Salmonellosis
Pasteurellosis
Clostridiosis
Erysipelas and others

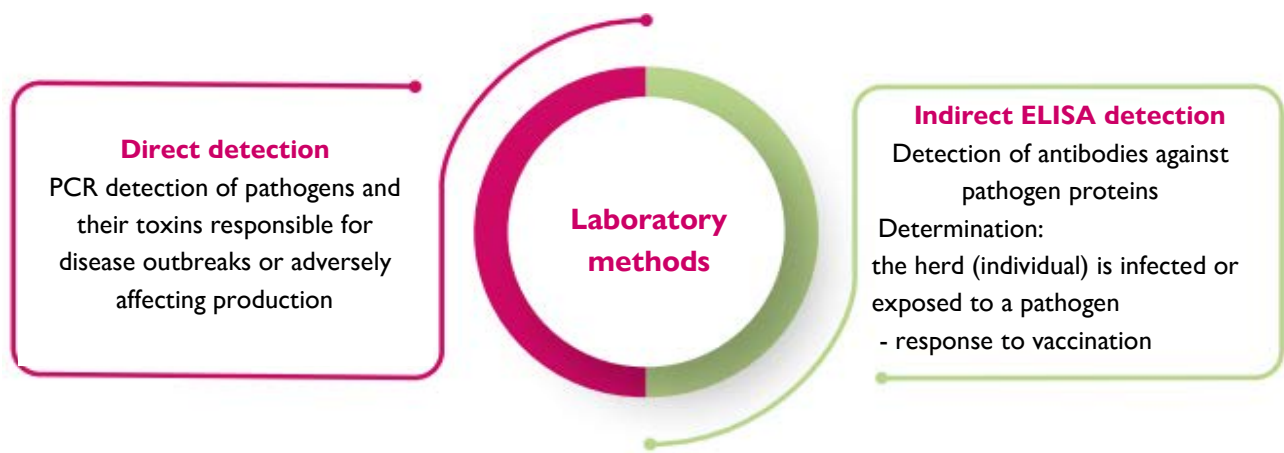


Methods of controlling infectious diseases

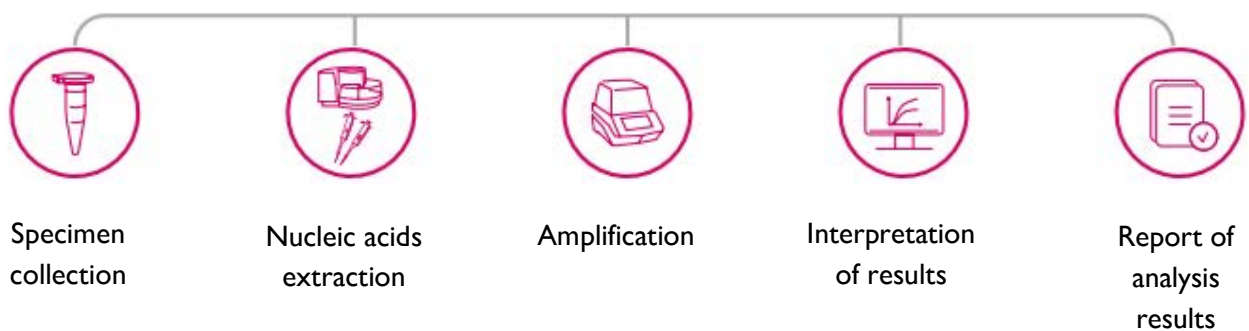


Laboratory testing for the diagnosis of infectious diseases in pigs

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.



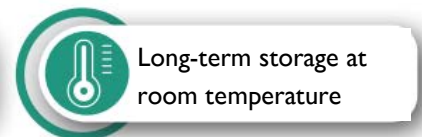
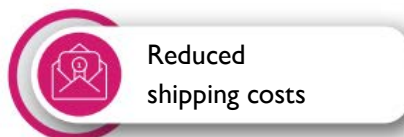
RealBest-Vet Technology: solution for Real-Time PCR diagnostics



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 pig infectious diseases:

- ✓ 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.№	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)
African swine fever (ASFV) detection kit		
5809	RealBest-Vet DNA ASFV A kit for the detection of DNA of the African swine fever virus	96
5819	RealBest-Vet DNA ASFV/HMBS Kit for detection of African swine fever virus DNA and endogenous control (HMBS gene)	96
Actinobacillus pleuropneumoniae detection kit		
5858	RealBest-Vet DNA Actinobacillus pleuropneumoniae <i>Actinobacillus pleuropneumoniae</i> DNA detection kit	96
Aujeszky's disease detection kit		
5829	RealBest-Vet DNA SuHV-1 Kit for differential detection of herpesvirus type 1 DNA and <i>gE</i> gene	96
Influenza detection kit		
5830	RealBest-Vet RNA Influenza A H1 RNA detection kit for influenza A virus subtype H1	96
Kit for the detection of hemophilic polyserositis (Glässer's disease)		
5455	RealBest-Vet DNA Haemophilus parasuis/VtaA group 1/VtaA group 2 <i>Haemophilus parasuis</i> DNA detection kit with differentiation of genes encoding VtaA virulence factors 1 and 2	96
Classic swine fever detection kit		
5833	RealBest-Vet RNA CSF Kit for the detection of classical swine fever virus RNA	96
Lawsonia intracellularis detection kit		
5414	RealBest-Vet DNA Lawsonia intracellularis <i>Lawsonia intracellularis</i> DNA detection kit	96
Mycoplasmosis detection kit		
5495	RealBest-Vet DNA Mycoplasma suis <i>Mycoplasma suis</i> DNA detection kit	96
5446	RealBest-Vet DNA Mycoplasma hyosynoviae/Mycoplasma hyorhinis/ Mycoplasma hyopneumonia Kit for the differential detection of <i>Mycoplasma hyosynoviae</i> , <i>Mycoplasma hyorhinis</i> and <i>Mycoplasma hyopneumonia</i> DNA	96
5859	RealBest-Vet DNA Candidatus Mycoplasma haemosuis/Mycoplasma suis Kit for the differential detection of <i>Candidatus Mycoplasma haemosuis</i> and <i>Mycoplasma suis</i> DNA	96

Cat.№	Kit name and description	Number of tests
Parvovirus infection detection kit		
5445	RealBest-Vet DNA PPV A kit for the detection of porcine parvovirus DNA	96
Porcine reproductive and respiratory syndrome (PRRSV) detection kit		
5828	RealBest-Vet RNA PRRSV Kit for the differential detection of porcine reproductive and respiratory syndrome virus type 1 and 2 RNA	96
Erysipelas detection kit		
5853	RealBest-Vet DNA Erysipelothrix rhusiopathie <i>Erysipelothrix rhusiopathie</i> DNA detection kit	96
Streptococcus detection kit		
5497	RealBest-Vet DNA Streptococcus suis <i>Streptococcus suis</i> DNA detection kit	96
5804	RealBest-Vet DNA Streptococcus suis/serotype 2 Kit for the differential detection of <i>Streptococcus suis</i> and <i>Streptococcus suis</i> serotype 2 DNA	96
Chlamydiosis detection kit		
5439	RealBest-Vet DNA Chlamydia suis <i>Chlamydia suis</i> DNA detection kit	96
5444	RealBest-Vet DNA Chlamydia suis/Chlamydia pecorum Kit for the differential detection of <i>Chlamydia suis</i> and <i>Chlamydia pecorum</i> DNA	96
Kit for detection of circovirus infection		
5493	RealBest-Vet DNA PCV-2 Porcine circovirus-2 DNA detection kit	96
5857	RealBest-Vet DNA PCV-2/PCV-3 Kit for the differential detection of porcine circovirus type 2 and 3 DNA	96
5860	RealBest-Vet DNA PCV-3/Erysipelothrix rhusiopathie/Lawsonia intracellularis Kit for the differential detection of circovirus type 3 DNA, <i>Erysipelothrix rhusiopathie</i> and <i>Lawsonia intracellularis</i>	96

Types of biospecimen

Disease (causing agent)	Biospecimen								
	Whole blood	Blood serum/ plasma	Smears and swabs	Products or ready-to- cook foods	Oral fluids	Organs and tissues	Feed	Sperm	Saliva
Viral infections									
African swine fever	•	•	•	•	•	•			
Classic swine fever	•	•	•			•			
Fever		•	•	•	•	•	•		
PRRSV		•	•			•		•	•
Circovirus infection	•	•				•		•	
Aujeszky's disease	•		•			•			
Parvovirus infection		•	•			•		•	
Rotavirus			•			•			
Bacterial infections									
<i>Actinobacillus pleuropneumoniae</i>	•		•			•			
Glässer's disease	•		•			•			
<i>Lawsonia intracellularis</i>			•			•			
Mykoplasmosis	•		•			•			
<i>Erysipelothrix rhusiopathie</i>	•		•			•			
Streptococcal infection	•		•			•			
Salmonellosis	•			•		•			
Pasteurellosis	•		•			•			
Clostridiosis			•			•			
Chlamydiosis			•			•			

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