

Product list

Animal infectious diseases

2022

**Product list of the veterinary PCR and ELISA diagnostic kits
Compliance with the requirements of international standard EN ISO 13485:2016**

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PCR diagnostic kits

The RealBest-Vet diagnostic kits are intended for the detection of animal infectious agents by real-time PCR/RT-PCR. AO Vector-Best offers user-friendly solutions for diagnostics such as lyophilized ready-to-use mixtures with a long shelf life and transportation temperature of up to 26 °C.

RealBest-Vet kits:

- Complex approach to PCR diagnostics encompassing sample preparation, PCR and evaluation of results
- Simple nucleic acids extraction using magnetic particles
- Lyophilized Ready Master Mix for the detection of DNA/RNA in real-time
- Compatible PCR and RT-PCR protocols for the detection of a wide range of pathogens
- Noncompetitive Internal Control
- Storage of all components at the same temperature (2–8)°C for up to 12 months; no freezing required
- Transportation at the temperature up to 26 °C for no more than 10 days is acceptable

All kits are produced in the str-format: Ready Master Mix is lyophilized in 0.2 ml white tubes of the 96-tube plate. The only step required for the reaction procedure is the addition of extracted DNA/RNA samples.

Real-time PCR Systems and formats:

Str format can be used with CFX96™ (Bio-Rad, USA), DT*prime* (DT-96), DT*lite* (DNA-Technology, Russia).

Number of simultaneously detected pathogens	Detection channels
1	FAM, ROX
2	FAM, ROX, HEX
3 and more	FAM, ROX, HEX, Cy5

Other real-time PCR cyclers with similar technical characteristics can be used after validation.

Attention!

The kits contain reagents for RT-PCR/PCR only. The kits for nucleic acids extraction must be ordered additionally. The appropriate extraction kit should be chosen depending on the type of analyzed biological material.

Nucleic acids extraction

Cat. No.	Kit name	Number of tests	Clinical specimens	Comments
V-5453	RealBest-Vet Alpha	96 (2x48)	Whole blood Sample volume – 100 µl	Extraction of DNA (for KingFisher Flex systems)
V-5454	RealBest-Vet Beta	96 (2x48)	Washings (conjunctiva, upper respiratory tract, urogenital and rectal tracts); synovial fluid; discharge (infraorbital sinuses, air sacs, pericardial cavity); biopsy and autopsy material of organs and tissues; blood serum/plasma; fetuses, eggs, feces, tick suspensions, FTA cards Sample volume – 100 µl	Extraction of DNA and RNA (for KingFisher Flex system)
C-8840	RealBest extraction 100	48 (8x6)	Whole blood, blood serum/plasma, leukocyte blood fraction, biopsy material, cerebrospinal fluid, urine, feces, epithelial cell specimens, tick suspensions, water samples Sample volume – 100 µl	Extraction of DNA and RNA
C-8899	RealBest DNA-express	100	Epithelial cell specimens from the cervical canal, urethra, vagina, posterior laryngeal wall, conjunctiva; semen, saliva, urine	Extraction of DNA in 15 minutes. Lysis Reagent – 100 tubes, Transport solution – 100 tubes

Solutions and components

V-5452	RealBest-Vet Inactivating solution	100	Homogenized samples of animal organs and tissues	Inactivation and storage of the samples 2 vials, 15 ml each
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Quantification of canine and feline DNA in clinical specimens

Cat. No.	Kit Name	Number of tests	Comments
V-5473	RealBest-Vet Sample Validation	48	Canine and feline DNA

Feline infectious diseases

Cat. No.	Kit Name	Number of tests	Comments
V-5420	RealBest-Vet DNA FHV-1	96	Felid herpesvirus type 1 DNA
V-5422	RealBest-Vet RNA FCV	96	Feline calicivirus RNA
V-5423	RealBest-Vet DNA FeLV	48	Proviral DNA of feline leukemia virus
V-5424	RealBest-Vet DNA FIV	96	Proviral DNA of feline immunodeficiency virus
V-5425	RealBest-Vet DNA FeLV/FIV	96	Proviral DNA of feline leukemia virus and feline immunodeficiency virus
V-5426	RealBest-Vet DNA Mycoplasma felis	96	<i>Mycoplasma felis</i> DNA
V-5428	RealBest-Vet DNA/RNA FeLV	96	Proviral DNA and RNA of feline leukemia virus
V-5429	RealBest-Vet DNA Chlamydomphila felis	96	<i>Chlamydomphila felis</i> DNA
V-5430	RealBest-Vet DNA FHV-1/GAPDH	96	Felid herpesvirus type 1 DNA and an endogenous control (the <i>GAPDH</i> gene)
V-5431	RealBest-Vet RNA FCV/HMBS	96	Feline calicivirus RNA and an endogenous control (the <i>HMBS</i> gene)

Canine infectious diseases

<i>Cat. No.</i>	<i>Kit Name</i>	<i>Number of tests</i>	<i>Comments</i>
V-5400	RealBest-Vet DNA CHV-1	96	Canid alphaherpesvirus 1 DNA
V-5401	RealBest-Vet RNA CDV	96	Canine distemper virus RNA
V-5402	RealBest-Vet DNA CA _{AdV} -1	96	Canine adenovirus type 1 DNA
V-5403	RealBest-Vet DNA <i>Mycoplasma canis</i>	48	<i>Mycoplasma canis</i> DNA
V-5404	RealBest-Vet RNA CPiV	96	Canine parainfluenza virus RNA
V-5405	RealBest-Vet DNA <i>Babesia gibsoni</i>	96	<i>Babesia gibsoni</i> DNA
V-5408	RealBest-Vet DNA <i>Mycoplasma canis</i> / <i>Mycoplasma cynos</i>	48	Differential detection of <i>Mycoplasma canis</i> and <i>Mycoplasma cynos</i> DNA
V-5409	RealBest-Vet DNA <i>Mycoplasma haemocanis</i>	48	<i>Mycoplasma haemocanis</i> DNA
V-5410	RealBest-Vet DNA <i>Ehrlichia canis</i>	96	<i>Ehrlichia canis</i> DNA
V-5411	RealBest-Vet DNA <i>Hepatozoon canis</i>	48	<i>Hepatozoon canis</i> DNA
V-5412	RealBest-Vet DNA <i>Mycoplasma cynos</i>	48	<i>Mycoplasma cynos</i> DNA
V-5413	RealBest-Vet DNA CPV-1	48	Canine parvovirus type 1 (minute virus of canines) DNA
V-5421	RealBest-Vet DNA CA _{AdV} -2	96	Canine adenovirus type 2 DNA
V-5469	RealBest-Vet DNA <i>Anaplasma platys</i> / <i>Anaplasma phagocytophilum</i>	96	Differential detection of <i>Anaplasma platys</i> and <i>Anaplasma phagocytophilum</i> DNA

Ruminant infectious diseases

<i>Cat. No.</i>	<i>Kit Name</i>	<i>Number of tests</i>	<i>Comments</i>
V-5416	RealBest-Vet DNA <i>Anaplasma marginale</i> / <i>Anaplasma phagocytophilum</i> / <i>Coxiella burnetii</i>	96	Differential detection of <i>Anaplasma marginale</i> , <i>Anaplasma phagocytophilum</i> , and <i>Coxiella burnetii</i>
V-5417	RealBest-Vet DNA <i>Histophilus somni</i> / <i>Mycoplasma bovis</i>	96	Differential detection of <i>Histophilus somni</i> and <i>Mycoplasma bovis</i> DNA
V-5418	RealBest-Vet DNA BHV-4	96	Bovine gammaherpesvirus type 4 DNA
V-5432	RealBest-Vet DNA CAEV	96	Proviral DNA of caprine arthritis encephalitis virus
V-5441	RealBest-Vet DNA cattle leukemia virus	96	Cattle leukemia virus DNA
V-5442	RealBest-Vet DNA BHV-1	96	Bovine herpesvirus 1 DNA
V-5443	RealBest-Vet DNA <i>Mycoplasma bovis</i> / <i>Mycoplasma bovigenitalium</i>	96	Differential detection of <i>Mycoplasma bovis</i> and <i>Mycoplasma bovigenitalium</i> DNA
V-5448	RealBest-Vet DNA <i>Anaplasma marginale</i> / <i>Anaplasma phagocytophilum</i>	96	Differential detection of <i>Anaplasma marginale</i> and <i>Anaplasma phagocytophilum</i> DNA
V-5459	RealBest-Vet DNA <i>Anaplasma marginale</i>	96	<i>Anaplasma marginale</i> DNA
V-5806	RealBest-Vet DNA <i>Coxiella burnetii</i>	96	<i>Coxiella burnetii</i> DNA
V-5807	RealBest-Vet DNA <i>Streptococcus uberis</i> / <i>Streptococcus agalactiae</i>	96	Differential detection of <i>Streptococcus uberis</i> and <i>Streptococcus agalactiae</i>
V-5810	RealBest-Vet RNA BVDV	96	Bovine viral diarrhea virus RNA
V-5811	RealBest-Vet DNA thermophilic campylobacter/ <i>Campylobacter fetus</i>	96	Differential detection of thermophilic campylobacter and <i>Campylobacter fetus</i> DNA
V-5812	RealBest-Vet DNA <i>Staphylococcus aureus</i> /methicillin resistance gene (<i>mecA</i>)	96	<i>Staphylococcus aureus</i> DNA and methicillin resistance gene (<i>mecA</i>)
V-5813	RealBest-Vet RNA BPIV-3	96	Bovine parainfluenza virus RNA type 3
V-5814	RealBest-Vet RNA BCoV	96	Bovine coronavirus RNA
V-5820	RealBest-Vet RNA BTV	96	Bluetongue virus RNA

Porcines infectious diseases

<i>Cat. No.</i>	<i>Kit Name</i>	<i>Number of tests</i>	<i>Comments</i>
V-5439	RealBest-Vet DNA <i>Chlamydia suis</i>	96	<i>Chlamydia suis</i> DNA
V-5444	RealBest-Vet DNA <i>Chlamydia suis</i> / <i>Chlamydia pecorum</i>	96	Differential detection of <i>Chlamydia suis</i> and <i>Chlamydia pecorum</i> DNA
V-5445	RealBest-Vet DNA PPV	96	Porcine parvovirus DNA
V-5446	RealBest-Vet DNA <i>Mycoplasma hyosynoviae</i> / <i>Mycoplasma hyorhinis</i> / <i>Mycoplasma hyopneumoniae</i>	96	Differential detection of <i>Mycoplasma hyosynoviae</i> , <i>Mycoplasma hyorhinis</i> , and <i>Mycoplasma hyopneumoniae</i> DNA
V-5455	RealBest-Vet DNA <i>Haemophilus parasuis</i> / VtaA group 1/ VtaA group 2	96	<i>Haemophilus parasuis</i> DNA with differentiation of VtaA virulence factor genes of groups 1 and 2
V-5493	RealBest-Vet DNA PCV-2	96	Porcine circovirus-2 DNA
V-5495	RealBest-Vet DNA <i>Mycoplasma suis</i>	96	<i>Mycoplasma suis</i> DNA
V-5497	RealBest-Vet DNA <i>Streptococcus suis</i>	96	<i>Streptococcus suis</i> DNA
V-5801	RealBest-Vet DNA <i>Lawsonia intracellularis</i>	96	<i>Lawsonia intracellularis</i> DNA
V-5804	RealBest-Vet DNA <i>Streptococcus suis</i> /serotype 2	96	<i>Streptococcus suis</i> DNA with differentiation of virulence factor gene of serotype 2
V-5809	RealBest-Vet DNA ASFV	96	African swine fever virus DNA

Poultry infectious diseases

<i>Cat. No.</i>	<i>Kit Name</i>	<i>Number of tests</i>	<i>Comments</i>
V-5433	RealBest-Vet DNA MDV	96	Marek's disease virus DNA
V-5434	RealBest-Vet DNA <i>Ornithobacterium rhinotracheale</i> / <i>Avibacterium paragallinarum</i>	96	Differential detection of <i>Ornithobacterium rhinotracheale</i> and <i>Avibacterium paragallinarum</i> DNA
V-5437	RealBest-Vet DNA <i>Mycoplasma synoviae</i> / <i>Mycoplasma gallisepticum</i>	96	Differential detection of <i>Mycoplasma synoviae</i> and <i>Mycoplasma gallisepticum</i> DNA
V-5438	RealBest-Vet DNA <i>Pasteurella multocida</i> / <i>Gallibacterium anatis</i>	96	Differential detection of <i>Pasteurella multocida</i> and <i>Gallibacterium anatis</i> DNA
V-5447	RealBest-Vet RNA aMPV types A, B	96	Avian metapneumovirus types A and B RNA
V-5449	RealBest-Vet DNA REV	96	Proviral DNA of reticuloendotheliosis virus
V-5450	RealBest-Vet DNA REV/FWPV	96	Differential detection of reticuloendotheliosis virus proviral DNA and fowlpox virus DNA
V-5451	RealBest-Vet DNA FAdV	96	Fowl adenovirus DNA
V-5458	RealBest-Vet RNA IBV	96	Infectious bronchitis virus RNA
V-5485	RealBest-Vet DNA <i>Chlamydophila psittaci</i>	48	<i>Chlamydophila psittaci</i> DNA
V-5491	RealBest-Vet DNA GaHV-1	96	Gallid alphaherpesvirus 1 DNA
V-5498	RealBest-Vet DNA CAV	96	Chicken anemia virus DNA
V-5803	RealBest-Vet RNA ARV	96	Avian reovirus RNA
V-5805	RealBest-Vet RNA NDV genotype	96	Newcastle disease virus and detection of the virulent genotype
V-5808	RealBest-Vet RNA IBV 793B	96	Infectious bronchitis virus RNA serotype 793B
V-5815	RealBest-Vet RNA IBDV	96	Infectious bursal disease virus RNA
V-5834	RealBest-Vet DNA MDV/Rispens	96	Marek's disease virus DNA and differential detection of Rispens vaccine strain (CV1988)

Infectious diseases affecting different animal species

Cat. No.	Kit Name	Number of tests	Comments	Cats	Dogs	Ruminants	Pigs	Poultry
V-5406	RealBest-Vet DNA <i>Dirofilaria immitis</i> / <i>Dirofilaria repens</i>	96	Differential detection of <i>Dirofilaria immitis</i> and <i>Dirofilaria repens</i> DNA	●	●			
V-5415	RealBest-Vet DNA <i>Salmonella</i> spp./ <i>Listeria</i> <i>monocytogenes</i> / <i>Chlamydomphila</i> spp.	96	Differential detection of <i>Salmonella</i> spp., <i>Listeria monocytogenes</i> , and <i>Chlamydomphila</i> spp. DNA	●	●	●	●	●
V-5419	RealBest-Vet DNA <i>Mycobacterium tuberculosis</i> complex	96	<i>Mycobacterium tuberculosis</i> complex DNA	●	●	●	●	●
V-5427	RealBest-Vet DNA <i>Tritrichomonas foetus</i>	96	<i>Tritrichomonas foetus</i> DNA	●	●	●		
V-5435	RealBest-Vet DNA <i>Yersinia enterocolitica</i>	96	<i>Yersinia enterocolitica</i> DNA	●	●	●	●	●
V-5436	RealBest-Vet DNA <i>Clostridium perfringens</i> enterotoxin	96	<i>Clostridium perfringens</i> enterotoxin DNA	●	●	●	●	●
V-5456	RealBest-Vet RNA Rotavirus C	96	Rotavirus C RNA	●	●	●	●	●
V-5457	RealBest-Vet DNA <i>Pasteurella</i> <i>multocida</i> / <i>Mannheimia haemolytica</i>	96	Differential detection of <i>Pasteurella</i> <i>multocida</i> and <i>Mannheimia haemolytica</i> DNA		●	●		
V-5460	RealBest-Vet DNA <i>Anaplasma</i> spp., <i>Ehrlichia</i> spp.	96	<i>Anaplasma</i> spp. and <i>Ehrlichia</i> spp. DNA	●	●	●		
V-5461	RealBest-Vet DNA <i>Babesia</i> spp.	96	<i>Babesia</i> spp. DNA	●	●	●	●	
V-5462	RealBest-Vet DNA <i>Toxoplasma gondii</i>	96	<i>Toxoplasma gondii</i> DNA	●	●	●	●	●
V-5463	RealBest-Vet DNA <i>Borrelia burgdorferi</i> s.l.	96	<i>Borrelia burgdorferi sensu lato</i> complex DNA	●	●	●		
V-5465	RealBest-Vet DNA <i>Chlamydia</i> spp.	96	<i>Chlamydia</i> spp. DNA	●	●	●	●	●
V-5466	RealBest-Vet DNA <i>Mycoplasma</i> spp., <i>Ureaplasma</i> spp.	96	<i>Mycoplasma</i> spp. and <i>Ureaplasma</i> spp. DNA	●	●	●	●	●
V-5467	RealBest-Vet DNA CPV, FPV	96	Canine parvovirus and feline panleukopenia virus DNA	●	●			
V-5468	RealBest-Vet RNA CCoV, FCoV	96	Canine coronavirus and feline coronavirus RNA	●	●			
V-5470	RealBest-Vet DNA <i>Brucella</i> spp.	48	<i>Brucella</i> spp. DNA	●	●	●	●	●
V-5472	RealBest-Vet DNA Hemotropic <i>Mycoplasmas</i>	96	Differential detection of <i>Candidatus</i> <i>Mycoplasma haemominutum</i> , <i>Candidatus</i> <i>Mycoplasma turicensis</i> , and <i>Mycoplasma</i> <i>haemofelis</i> DNA	●	●			

Cat. No.	Kit Name	Number of tests	Comments	Cats	Dogs	Ruminants	Pigs	Poultry
V-5474	RealBest-Vet DNA Salmonella spp.	48	Salmonella spp. DNA	●	●	●	●	●
V-5475	RealBest-Vet DNA Bordetella bronchiseptica	96	Bordetella bronchiseptica DNA	●	●		●	
V-5476	RealBest-Vet DNA Bartonella spp.	96	Bartonella spp. DNA	●	●			
V-5477	RealBest-Vet DNA Microsporium	48	Microsporium canis, Microsporium ferrugineum, and Microsporium audouinii DNA	●	●			
V-5478	RealBest-Vet DNA Leishmania spp.	48	Leishmania spp. DNA	●	●			
V-5479	RealBest-Vet DNA Chlamydia spp./Mycoplasma spp., Ureaplasma spp.	48	Chlamydia spp., Mycoplasma spp., and Ureaplasma spp. DNA	●	●	●	●	●
V-5480	RealBest-Vet DNA Salmonella spp./S. typhimurium, S. enteridis	48	Salmonella spp. DNA with differentiation of Salmonella typhimurium and Salmonella enteridis DNA	●	●	●	●	●
V-5482	RealBest-Vet DNA Campylobacter spp.	48	Campylobacter spp. DNA	●	●	●	●	●
V-5483	RealBest-Vet DNA Clostridium difficile/Clostridium perfringens	48	Differential detection of Clostridium difficile and Clostridium perfringens DNA	●	●	●	●	●
V-5484	RealBest-Vet DNA Clostridium difficile tcdA/tcdB/CDT	48	Clostridium difficile genes encoding toxin A, toxin B, and binary toxin CDT	●	●	●	●	●
V-5486	RealBest-Vet DNA Cryptosporidium spp.	48	Cryptosporidium spp. DNA	●	●	●	●	●
V-5487	RealBest-Vet DNA Listeria monocytogenes	48	Listeria monocytogenes DNA	●	●	●	●	●
V-5488	RealBest-Vet RNA Rotavirus A	48	Rotavirus A RNA	●	●	●	●	●
V-5489	RealBest-Vet DNA Giardia spp.	48	Giardia spp. DNA	●	●	●	●	
V-5490	RealBest-Vet DNA Mycobacterium spp.	48	Mycobacterium spp. DNA	●	●	●	●	●
V-5492	RealBest-Vet DNA CPV, FPV/HMBS	96	Canine parvovirus, feline panleukopenia virus DNA, and an endogenous control (the HMBS gene)	●	●			
V-5802	RealBest-Vet DNA Pathogenic Leptospira	96	Pathogenic Leptospira DNA	●	●	●	●	●
V-5816	RealBest-Vet DNA Chlamydia pecorum	96	Chlamydia pecorum DNA	●	●	●	●	●

ELISA diagnostic kits

Animal infectious diseases

<i>Cat. No.</i>	<i>Kit Name</i>	<i>Number of tests</i>	<i>Comments</i>
V-0801	EIA BEST-Vet Ab-BVDV	24×8	Detection of antibodies to Bovine viral diarrhea virus
V-0803	EIA BEST-Vet Ab-BHV-1	24×8	Detection of antibodies to Bovine herpesvirus 1
V-1710	Toxo-antibodies-EIA-Zoo-BEST	12×8	Detection of total antibodies to <i>Toxoplasma gondii</i>
V-3601	SARS-CoV-2-AB total-EIA-BEST-Vet	12×8	Detection of total antibodies to SARS-CoV-2