

# **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).

<b>Number of simultaneously detected pathogens</b>	<b>Detection channels</b>
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 – <b>100 µl</b>	Extraction of <b>DNA</b> (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 – <b>100 µl</b>	Extraction of <b>DNA and RNA</b> (for KingFisher Flex system)
C-8896	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 – <b>100 µl</b>	Extraction of <b>DNA and RNA</b>
C-8899	RealBest DNA-express	100	Epithelial cell specimens from the cervical canal, urethra, vagina, posterior laryngeal wall, conjunctiva; semen, saliva, urine	Extraction of <b>DNA</b> 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	96	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 CAdV-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>	96	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>	96	<i>Mycoplasma cynos</i> DNA
V-5413	RealBest-Vet DNA CPV-1	96	Canine parvovirus type 1 (minute virus of canines) DNA
V-5421	RealBest-Vet DNA CAdV-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-5414	RealBest-Vet RNA BCoV	96	Bovine coronavirus RNA
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-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/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/Mycoplasma hyorhinis/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/ VtaA group 1/ VtaA group 2</i>	96	<i>Haemophilus parasuis</i> DNA with differentiation of <i>VtaA</i> 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/serotype 2</i>	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>
-5433	RealBest-Vet DNA MDV	96	Marek's disease virus DNA
V-5434	RealBest-Vet DNA <i>Ornithobacterium rhinotracheale/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/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/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 (CVI988)

## 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>Chlamydophila</i> spp.	96	Differential detection of <i>Salmonella</i> spp., <i>Listeria monocytogenes</i> , and <i>Chlamydophila</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.	96	<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.	96	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	96	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.	96	Chlamydia spp., Mycoplasma spp., and Ureaplasma spp. DNA	●	●	●	●	●
V-5480	RealBest-Vet DNA Salmonella spp./S. typhimurium, S. enteridis	96	Salmonella spp. DNA with differentiation of Salmonella typhimurium and Salmonella enteridis DNA	●	●	●	●	●
V-5482	RealBest-Vet DNA Campylobacter spp.	96	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	96	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	●	●	●	●	●
V-5823	RealBest-Vet DNA Mycoplasma haemofelis	96	Mycoplasma haemofelis DNA	●	●			
V-5824	RealBest-Vet DNA Candidatus Mycoplasma haemominutu	96	Candidatus Mycoplasma haemominutu DNA	●	●			
V-5825	RealBest-Vet DNA Candidatus Mycoplasma turicensis	96	Candidatus Mycoplasma turicensis DNA	●	●			



## ELISA diagnostic kits

### Animal infectious diseases

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