

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

| <i>Cat. No.</i> | <i>Kit name</i> | <i>Number of tests</i> | <i>Clinical specimens</i> | <i>Comments</i> |
|-----------------|-------------------------|------------------------|--|---|
| 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-8896 CE | RealBest extraction 100 | 48 (6x8) | 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 CE | 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 |
|--------|------------------------------------|-----|--|--|

Quantification of canine and feline DNA in clinical specimens

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

Feline infectious diseases

| <i>Cat. No.</i> | <i>Kit Name</i> | <i>Number of tests</i> | <i>Comments</i> |
|-----------------|--|------------------------|--|
| 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 <i>Mycoplasma felis</i> | 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 <i>Chlamydomphila felis</i> | 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> | 48 | <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> | 48 | <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 CAdV-2 | 96 | Canine adenovirus type 2 DNA |
| V-5469 | RealBest-Vet DNA <i>Anaplasma platys</i> / <i>Anaplasma phagocytophilum</i> | 48 | 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-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 |

| Cat. No. | Kit Name | Number of tests | Comments |
|----------|--|-----------------|---|
| V-5443 | RealBest-Vet DNA <i>Mycoplasma bovis</i> / <i>Mycoplasma bovis</i> | 96 | Differential detection of <i>Mycoplasma bovis</i> and <i>Mycoplasma bovis</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 |

Porcines infectious diseases

| Cat. No. | Kit Name | Number of tests | Comments |
|----------|--|-----------------|---|
| 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 |

Poultry infectious diseases

| Cat. No. | Kit Name | Number of tests | Comments |
|----------|--|-----------------|---|
| 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 |

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. | 48 | <i>Anaplasma</i> spp. and <i>Ehrlichia</i> spp. DNA | ● | ● | ● | | |
| V-5461 | RealBest-Vet DNA <i>Babesia</i> spp. | 48 | <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. | 48 | <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 | ● | ● | ● | ● | ● |

ELISA diagnostic kits
Animal infectious diseases

| <i>Cat. No.</i> | <i>Kit Name</i> | <i>Number of tests</i> | <i>Comments</i> |
|-----------------|---|------------------------|---|
| 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 |