

BactoReal[®] Kits for detection of bacteria

| Product Name | Channel Pathogen | Channel IPC | Reactions | Order Number |
|--|------------------|-------------|-----------|--------------|
| BactoReal[®] Kit <i>Actinobacillus pleuropneumoniae</i> Detection of the apxIVA gene of <i>A. pleuropneumoniae</i> | FAM | VIC | 100 | DVEB02011 |
| | | | 50 | DVEB02051 |
| | | CY5 | 100 | DVEB02013 |
| | | | 50 | DVEB02053 |
| BactoReal[®] Kit <i>Aerococcus viridans</i> Detection of the 16S rRNA gene of <i>A. viridans</i> | FAM | VIC | 100 | DVEB05311 |
| | | | 50 | DVEB05351 |
| | | CY5 | 100 | DVEB05313 |
| | | | 50 | DVEB05353 |
| BactoReal[®] Kit American Foulbrood 1.1 Detection of the 16S rRNA gene of <i>Paenibacillus larvae</i> | FAM | VIC | 100 | DVEB05411 |
| | | | 50 | DVEB05451 |
| | | CY5 | 100 | DVEB05413 |
| | | | 50 | DVEB05453 |
| BactoReal[®] Kit <i>Bartonella</i> spp. Detection of the gltA gene of <i>B. clarridgeiae</i> , <i>B. elizabethae</i> , <i>B. grahamii</i> , <i>B. henselae</i> , <i>B. koehlerae</i> , <i>B. quintana</i> , <i>B. volans</i> and <i>B. washoensis</i> | FAM | VIC | 100 | DVEB03911 |
| | | | 50 | DVEB03951 |
| | | CY5 | 100 | DVEB03913 |
| | | | 50 | DVEB03953 |
| BactoReal[®] Kit <i>Bordetella bronchiseptica</i> Detection of the bfrA gene of <i>B. bronchiseptica</i> | FAM | VIC | 100 | DVEB02411 |
| | | | 50 | DVEB02451 |
| | | CY5 | 100 | DVEB02413 |
| | | | 50 | DVEB02453 |
| BactoReal[®] Kit <i>Borrelia burgdorferi sensu lato</i> Detection of the ospA gene of <i>Borrelia</i> species belonging to the <i>Borrelia burgdorferi sensu lato</i> complex (<i>B. spielmanii</i> is not well detected) | FAM | VIC | 100 | DVEB05011 |
| | | | 50 | DVEB05051 |
| | | CY5 | 100 | DVEB05013 |
| | | | 50 | DVEB05053 |
| BactoReal[®] Kit <i>Brachyspira hyo/pilo</i> Combined detection of the nox gene of <i>B. hyodysenteriae</i> and <i>B. pilosicoli</i> . No differentiation between species. | FAM | VIC | 100 | DVEB01811 |
| | | | 50 | DVEB01851 |
| | | CY5 | 100 | DVEB01813 |
| | | | 50 | DVEB01853 |
| BactoReal[®] Kit <i>Brachyspira hyodysenteriae</i> Detection of the nox gene of <i>B. hyodysenteriae</i> | FAM | VIC | 100 | DVEB01111 |
| | | | 50 | DVEB01151 |
| | | CY5 | 100 | DVEB01113 |
| | | | 50 | DVEB01153 |
| BactoReal[®] Kit <i>Brachyspira pilosicoli</i> Detection of the nox gene of <i>B. pilosicoli</i> | FAM | VIC | 100 | DVEB01211 |
| | | | 50 | DVEB01251 |
| | | CY5 | 100 | DVEB01213 |
| | | | 50 | DVEB01253 |
| BactoReal[®] Kit <i>Brucella</i> spp. Detection of the IS711 region of <i>B. abortus</i> , <i>B. ovis</i> , <i>B. melitensis</i> , <i>B. suis</i> and <i>B. canis</i> | FAM | VIC | 100 | DVEB02111 |
| | | | 50 | DVEB02151 |
| | | CY5 | 100 | DVEB02113 |
| | | | 50 | DVEB02153 |
| BactoReal[®] Kit <i>Campylobacter</i> spp. Detection of the 16S rRNA gene of <i>Campylobacter</i> spp. | FAM | VIC | 100 | DVEB06911 |
| | | | 50 | DVEB06951 |
| | | CY5 | 100 | DVEB06913 |
| | | | 50 | DVEB06953 |
| BactoReal[®] Kit <i>Chlamydiaceae</i> Detection of the 23S rRNA gene of <i>C. muridarum</i> , <i>C. suis</i> , <i>C. trachomatis</i> , <i>C. abortus</i> , <i>C. caviae</i> , <i>C. felis</i> , <i>C. pecorum</i> , <i>C. pneumoniae</i> and <i>C. psittaci</i> | FAM | VIC | 100 | DVEB03111 |
| | | | 50 | DVEB03151 |
| | | CY5 | 100 | DVEB03113 |
| | | | 50 | DVEB03153 |

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| BactoReal® Kit <i>Chlamydophila psittaci/abortus</i> Detection of the omp1 gene of <i>C. abortus</i> and <i>C. psittaci</i> | FAM | VIC | 100 | DVEB03011 |
| | | | 50 | DVEB03051 |
| | | CY5 | 100 | DVEB03013 |
| | | | 50 | DVEB03053 |
| BactoReal® Kit <i>Clostridium difficile</i> Detection of the toxin A (tcdA) gene and toxin B (tcdB) gene of <i>C. difficile</i> | FAM + VIC | CY5 | 100 | DVEB04213 |
| | | | 50 | DVEB04253 |
| BactoReal® Kit <i>Clostridium perfringens</i> Detection of the 16S rRNA gene of <i>C. perfringens</i> | FAM | VIC | 100 | DVEB06511 |
| | | | 50 | DVEB06551 |
| | | CY5 | 100 | DVEB06513 |
| | | | 50 | DVEB06553 |
| BactoReal® Kit <i>Corynebacterium pseudotuberculosis</i> Detection of the pld gene of <i>C. pseudotuberculosis</i> | FAM | VIC | 100 | DVEB05211 |
| | | | 50 | DVEB05251 |
| | | CY5 | 100 | DVEB05213 |
| | | | 50 | DVEB05253 |
| BactoReal® Kit <i>Coxiella burnetii</i> Detection of the IS1111 insertion sequence of <i>C. burnetii</i> | FAM | VIC | 100 | DVEB05811 |
| | | | 50 | DVEB05851 |
| | | CY5 | 100 | DVEB05813 |
| | | | 50 | DVEB05853 |
| BactoReal® Kit <i>Enterococcus</i> spp. Detection of the 23S rRNA gene of <i>Enterococcus</i> species | FAM | VIC | 100 | DVEB03411 |
| | | | 50 | DVEB03451 |
| | | CY5 | 100 | DVEB03413 |
| | | | 50 | DVEB03453 |
| BactoReal® Kit <i>Klebsiella</i> Detection of the hemolysin gene of <i>K. pneumoniae</i> , <i>K. variicola</i> , <i>K. oxytoca</i> , <i>K. aerogenes</i> | FAM | VIC | 100 | DVEB06711 |
| | | | 50 | DVEB06751 |
| | | CY5 | 100 | DVEB06713 |
| | | | 50 | DVEB06753 |
| BactoReal® Kit <i>Escherichia coli</i> Detection of the dxs gene of <i>E. coli</i> and <i>Shigella</i> | FAM | VIC | 100 | DVEB01911 |
| | | | 50 | DVEB01951 |
| | | CY5 | 100 | DVEB01913 |
| | | | 50 | DVEB01953 |
| BactoReal® Kit <i>E. coli</i> Typing stx1 & stx2 (STEC) Detection of virulence-associated genes stx1 and stx2 (verotoxin) of <i>E. coli</i> | FAM + VIC | CY5 | 100 | DVEB04013 |
| | | | 50 | DVEB04053 |
| BactoReal® Kit <i>E. coli</i> Typing eae & ehxA (EHEC, EPEC) Detection of virulence-associated genes eae (intimin) and ehxA (enterohemolysin) of <i>E. coli</i> | FAM + VIC | CY5 | 100 | DVEB04113 |
| | | | 50 | DVEB04153 |
| BactoReal® Kit <i>E. coli</i> Typing eae (EHEC or EPEC) Detection of virulence-associated gene eae (intimin) of <i>E. coli</i> | FAM | CY5 | 100 | DVEB04313 |
| | | | 50 | DVEB04353 |
| BactoReal® Kit <i>E. coli</i> Typing ehxA (EHEC) Detection of virulence-associated gene ehxA (enterohemolysin) of <i>E. coli</i> | VIC | CY5 | 100 | DVEB04413 |
| | | | 50 | DVEB04453 |
| BactoReal® Kit Footrot Detection of the pnpA gene of <i>Dichelobacter nodosus</i> and the gyrB gene of <i>Fusobacter necrophorum</i> subsp. <i>necrophorum</i> | FAM + VIC | CY5 | 100 | DVEB06813 |
| | | | 50 | DVEB06853 |
| BactoReal® Kit European Foulbrood Detection of the 16S rRNA gene of <i>Melissococcus plutonius</i> | FAM | VIC | 100 | DVEB05511 |
| | | | 50 | DVEB05551 |
| | | CY5 | 100 | DVEB05513 |
| | | | 50 | DVEB05553 |
| BactoReal® Kit <i>Glaesserella parasuis</i> Detection of the 16S rRNA gene of <i>Glaesserella parasuis</i> (formerly <i>Haemophilus parasuis</i>) | FAM | VIC | 100 | DVEB00411 |
| | | | 50 | DVEB00451 |
| | | CY5 | 100 | DVEB00413 |
| | | | 50 | DVEB00453 |
| BactoReal® Kit <i>Histophilus somni</i> Detection of the 16S rRNA gene of <i>H. somni</i> | FAM | VIC | 100 | DVEB06111 |
| | | | 50 | DVEB06151 |
| | | CY5 | 100 | DVEB06113 |
| | | | 50 | DVEB06153 |

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| BactoReal® Kit <i>Lawsonia intracellularis</i> Detection of the 16S rRNA gene of <i>L. intracellularis</i> | FAM | VIC | 100 | DVEB01311 |
| | | | 50 | DVEB01351 |
| | | CY5 | 100 | DVEB01313 |
| | | | 50 | DVEB01353 |
| BactoReal® Kit <i>Leptospira</i> spp. (16S rDNA) Detection of the 16S rRNA gene of pathogenic and intermediately pathogenic <i>Leptospira</i> species | VIC | CY5 | 100 | DVEB00513 |
| | | | 50 | DVEB00553 |
| BactoReal® Kit <i>Leptospira</i> spp. (LipL32) Detection of the LipL32 gene of pathogenic <i>Leptospira</i> species | FAM | VIC | 100 | DVEB00611 |
| | | | 50 | DVEB00651 |
| | | CY5 | 100 | DVEB00613 |
| | | | 50 | DVEB00653 |
| BactoReal® Kit <i>Leptospira</i> spp. Multiplex (16S+LipL32) Detection and differentiation of LipL32 gene of pathogenic and 16S rRNA gene of pathogenic and intermediately pathogenic <i>Leptospira</i> species | FAM + VIC | Cy5 | 100 | DVEB00713 |
| | | | 50 | DVEB00753 |
| BactoReal® Kit <i>Listeria monocytogenes</i> Detection of the hlyA gene of <i>L. monocytogenes</i> | FAM | VIC | 100 | DVEB00811 |
| | | | 50 | DVEB00851 |
| | | CY5 | 100 | DVEB00813 |
| | | | 50 | DVEB00853 |
| BactoReal® Kit <i>Mannheimia haemolytica</i> Detection of the 16S rRNA gene of <i>M. haemolytica</i> | FAM | VIC | 100 | DVEB02911 |
| | | | 50 | DVEB02951 |
| | | CY5 | 100 | DVEB02913 |
| | | | 50 | DVEB02953 |
| BactoReal® Kit <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> Detection of the IS900 region of <i>M. avium</i> subspecies <i>paratuberculosis</i> | FAM | VIC | 100 | DVEB02211 |
| | | | 50 | DVEB02251 |
| | | CY5 | 100 | DVEB02213 |
| | | | 50 | DVEB02253 |
| BactoReal® Kit <i>Mycobacterium tuberculosis</i> complex Detection of the ITS2 region of the MTBC (<i>M. tuberculosis</i> , <i>M. bovis</i> , <i>M. caprae</i> , <i>M. canetti</i> , <i>M. africanum</i> and <i>M. microti</i>) | FAM | VIC | 100 | DVEB02711 |
| | | | 50 | DVEB02751 |
| | | CY5 | 100 | DVEB02713 |
| | | | 50 | DVEB02753 |
| BactoReal® Kit <i>Mycoplasma bovis</i> Detection of the rpoB gene of <i>M. bovis</i> | FAM | VIC | 100 | DVEB02511 |
| | | | 50 | DVEB02551 |
| | | CY5 | 100 | DVEB02513 |
| | | | 50 | DVEB02553 |
| BactoReal® Kit <i>Mycoplasma gallisepticum</i> Detection of the mgc2 gene of <i>M. gallisepticum</i> | FAM | VIC | 100 | DVEB00311 |
| | | | 50 | DVEB00351 |
| | | CY5 | 100 | DVEB00313 |
| | | | 50 | DVEB00353 |
| BactoReal® Kit <i>Mycoplasma gallisepticum</i> & <i>synoviae</i> Detection of the mgc2 gene of <i>M. gallisepticum</i> and of the vlhA gene of <i>M. synoviae</i> | FAM + VIC | CY5 | 100 | DVEB05713 |
| | | | 50 | DVEB05753 |
| BactoReal® Kit <i>Mycoplasma hyopneumoniae</i> Detection of the rpoB gene of <i>M. hyopneumoniae</i> | FAM | VIC | 100 | DVEB00111 |
| | | | 50 | DVEB00151 |
| | | CY5 | 100 | DVEB00113 |
| | | | 50 | DVEB00153 |
| BactoReal® Kit <i>Mycoplasma hyorhinis</i> Detection of the rpoB gene of <i>M. hyorhinis</i> | FAM | VIC | 100 | DVEB01411 |
| | | | 50 | DVEB01451 |
| | | CY5 | 100 | DVEB01413 |
| | | | 50 | DVEB01453 |
| BactoReal® Kit <i>Mycoplasma suis</i> Detection of the 16S rRNA gene of <i>M. suis</i> | FAM | VIC | 100 | DVEB02611 |
| | | | 50 | DVEB02651 |
| | | CY5 | 100 | DVEB02613 |
| | | | 50 | DVEB02653 |
| BactoReal® Kit <i>Mycoplasma synoviae</i> Detection of the vlhA gene of <i>M. synoviae</i> | FAM | VIC | 100 | DVEB00211 |
| | | | 50 | DVEB00251 |
| | | CY5 | 100 | DVEB00213 |
| | | | 50 | DVEB00253 |

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| BactoReal® Kit <i>Nocardia</i> spp. Detection of the 16S rRNA gene of <i>Nocardia</i> species | FAM | VIC | 100 | DVEB03611 |
| | | | 50 | DVEB03651 |
| | | CY5 | 100 | DVEB03613 |
| | | | 50 | DVEB03653 |
| BactoReal® Kit <i>Ornithobacterium rhinotracheale</i> Detection of the 16S rRNA gene of <i>O. rhinotracheale</i> | FAM | VIC | 100 | DVEB06611 |
| | | | 50 | DVEB06651 |
| | | CY5 | 100 | DVEB06613 |
| | | | 50 | DVEB06653 |
| BactoReal® Kit <i>Pasteurella multocida</i> Detection of the 16S rRNA gene of <i>Pasteurella multocida</i> (subspecies <i>P. multocida</i> , <i>P. gallicida</i> , <i>P. septica</i> , <i>P. tigris</i>) | FAM | VIC | 100 | DVEB02811 |
| | | | 50 | DVEB02851 |
| | | CY5 | 100 | DVEB02813 |
| | | | 50 | DVEB02853 |
| BactoReal® Kit <i>Pasteurella multocida</i> toxA Detection of the toxA gene of toxigenic <i>P. multocida</i> strains (PMT) | FAM | VIC | 100 | DVEB00911 |
| | | | 50 | DVEB00951 |
| | | CY5 | 100 | DVEB00913 |
| | | | 50 | DVEB00953 |
| BactoReal® Kit <i>Pseudomonas aeruginosa</i> Detection of the 16S rRNA gene of <i>P. aeruginosa</i> | FAM | VIC | 100 | DVEB04511 |
| | | | 50 | DVEB04551 |
| | | CY5 | 100 | DVEB04513 |
| | | | 50 | DVEB04553 |
| BactoReal® Kit <i>Riemerella anatipestifer</i> Detection of the 16S-23S ribosomal RNA intergenic spacer of <i>R. anatipestifer</i> | FAM | VIC | 100 | DVEB05911 |
| | | | 50 | DVEB05951 |
| | | CY5 | 100 | DVEB05913 |
| | | | 50 | DVEB05953 |
| BactoReal® Kit <i>Salmonella enterica</i> Detection of the invA gene of <i>S. enterica</i> | FAM | VIC | 100 | DVEB02311 |
| | | | 50 | DVEB02351 |
| | | CY5 | 100 | DVEB02313 |
| | | | 50 | DVEB02353 |
| BactoReal® Kit <i>Staphylococcus aureus</i> Detection of the nuc gene of <i>S. aureus</i> | FAM | VIC | 100 | DVEB01011 |
| | | | 50 | DVEB01051 |
| | | CY5 | 100 | DVEB01013 |
| | | | 50 | DVEB01053 |
| BactoReal® Kit <i>Staphylococcus</i> spp. Detection of the 23S rRNA gene of <i>Staphylococcus</i> species | FAM | VIC | 100 | DVEB03711 |
| | | | 50 | DVEB03751 |
| | | CY5 | 100 | DVEB03713 |
| | | | 50 | DVEB03753 |
| BactoReal® Kit <i>Streptococcus agalactiae</i> Detection of the cfb gene of <i>S. agalactiae</i> | FAM | VIC | 100 | DVEB01511 |
| | | | 50 | DVEB01551 |
| | | CY5 | 100 | DVEB01513 |
| | | | 50 | DVEB01553 |
| BactoReal® Kit <i>Streptococcus dysgalactiae</i> Detection and differentiation of 23S rRNA gene of <i>S. dysgalactiae</i> and <i>S. canis</i> and of 16S rRNA gene of <i>Streptococcus</i> species except <i>S. canis</i> | FAM + VIC | CY5 | 100 | DVEB01713 |
| | | | 50 | DVEB01753 |
| BactoReal® Kit <i>Streptococcus suis</i> Detection of the fbpS gene of <i>S. suis</i> | FAM | VIC | 100 | DVEB06011 |
| | | | 50 | DVEB06051 |
| | | CY5 | 100 | DVEB06013 |
| | | | 50 | DVEB06053 |
| BactoReal® Kit <i>Streptococcus uberis</i> Detection of the ITS2 region of <i>S. uberis</i> | FAM | VIC | 100 | DVEB01611 |
| | | | 50 | DVEB01651 |
| | | CY5 | 100 | DVEB01613 |
| | | | 50 | DVEB01653 |
| BactoReal® Kit <i>Streptococcus</i> spp. Detection of the 23S rRNA gene of <i>Streptococcus</i> species | FAM | VIC | 100 | DVEB03811 |
| | | | 50 | DVEB03851 |
| | | CY5 | 100 | DVEB03813 |
| | | | 50 | DVEB03853 |

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| BactoReal® Kit <i>Taylorella equigenitalis</i> Detection of the 16S rRNA gene of <i>T. equigenitalis</i> | FAM | VIC | 100 | DVEB04611 |
| | | | 50 | DVEB04651 |
| | | CY5 | 100 | DVEB04613 |
| | | | 50 | DVEB04653 |
| BactoReal® Kit <i>Trueperella pyogenes</i> Detection of the 16S rRNA gene of <i>T. pyogenes</i> | FAM | VIC | 100 | DVEB05111 |
| | | | 50 | DVEB05151 |
| | | CY5 | 100 | DVEB05113 |
| | | | 50 | DVEB05153 |

ParoReal® Kits for detection of parasites

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|--|------------------|-------------|-----------|--------------|
| ParoReal® Kit <i>Cryptosporidium parvum</i> Detection of the GP60 gene of <i>C. parvum</i> | FAM | VIC | 100 | DVEP00611 |
| | | | 50 | DVEP00651 |
| | | CY5 | 100 | DVEP00613 |
| | | | 50 | DVEP00653 |
| ParoReal® Kit <i>Echinococcus multilocularis</i> Detection of the mitochondrial ND1 gene of <i>E. multilocularis</i> | FAM | VIC | 100 | DVEP00111 |
| | | | 50 | DVEP00151 |
| | | CY5 | 100 | DVEP00113 |
| | | | 50 | DVEP00153 |
| ParoReal® Kit <i>Histomonas meleagridis</i> Detection of the 18S rRNA gene of <i>H. meleagridis</i> | FAM | VIC | 100 | DVEP00311 |
| | | | 50 | DVEP00351 |
| | | CY5 | 100 | DVEP00313 |
| | | | 50 | DVEP00353 |
| ParoReal® Kit <i>Neospora caninum</i> Detection of the mitochondrial NC5 gene of <i>N. caninum</i> | FAM | VIC | 100 | DVEP00511 |
| | | | 50 | DVEP00551 |
| | | CY5 | 100 | DVEP00513 |
| | | | 50 | DVEP00553 |
| ParoReal® Kit <i>Trichinella spiralis</i> & <i>britovi</i> Detection and differentiation of the internal transcribed spacer of <i>Trichinella spiralis</i> and <i>T. britovi</i> | FAM + VIC | CY5 | 100 | DVEP00413 |
| | | | 50 | DVEP00453 |

MycoReal® Kits for detection of fungi

| Product Name | Channel Pathogen | Channel IPC | Reactions | Order Number |
|--|------------------|-------------|-----------|--------------|
| MycoReal® Kit <i>Ascosphaera apis</i> Detection of the ITS-1 region of <i>Ascosphaera apis</i> | FAM | VIC | 100 | DVEF00211 |
| | | | 50 | DVEF00251 |
| | | CY5 | 100 | DVEF00213 |
| | | | 50 | DVEF00253 |
| MycoReal® Kit <i>Nosema apis</i> & <i>ceranae</i> Detection of the 18S rRNA gene of <i>Nosema apis</i> and <i>Nosema ceranae</i> | FAM + VIC | CY5 | 100 | DVEF00113 |
| | | | 50 | DVEF00153 |
| MycoReal® Kit <i>Batrachochytrium dendrobatidis</i> Detection of the ITS-1 region of <i>B. dendrobatidis</i> | FAM | VIC | 100 | DVEF00311 |
| | | | 50 | DVEF00351 |
| | | CY5 | 100 | DVEF00313 |
| | | | 50 | DVEF00353 |
| MycoReal® Kit Fungi (RUO) Detection of the ITS region of fungi. Sequencing primer included. | FAM | CY5 | 50 | DHUF00453 |

ViroReal® Kits for detection of viruses

| Product Name | Channel Pathogen | Channel IPC | Reactions | Order Number |
|--|------------------|-------------|-----------|------------------------|
| ViroReal® Kit ASF Virus Detection of DNA of the major capsid protein gene p72 of ASFV | FAM | CY5 | 100 50 | DVEV02013 DVEV02053 |
| ViroReal® Kit Bluetongue Virus Detection of RNA of the segment 10 (NS3) of BTV | FAM | VIC | 100 50 | DVEV02211 DVEV02251 |
| | | CY5 | 100 50 | DVEV02213 DVEV02253 |
| ViroReal® Kit Bovine Coronavirus Detection of RNA of the N gene of BCoV | FAM | VIC | 100 50 | DVEV00911 DVEV00951 |
| | | CY5 | 100 50 | DVEV00913 DVEV00953 |
| ViroReal® Kit Bovine Herpesvirus 1 Detection of DNA of the UL27 gene of BoHV1 causing IBR and IPV | FAM | VIC | 100 50 | DVEV02911 DVEV02951 |
| | | CY5 | 100 50 | DVEV02913 DVEV02953 |
| ViroReal® Kit Bovine Nebovirus Detection of RNA of the ORF1 of bovine nebovirus | FAM | VIC | 100 50 | DVEV02711 DVEV02751 |
| | | CY5 | 100 50 | DVEV02713 DVEV02753 |
| ViroReal® Kit Bovine Norovirus Detection of RNA of the ORF1 of bovine norovirus genotypes GIII.1 and GIII.2 | FAM | VIC | 100 50 | DVEV02611 DVEV02651 |
| | | CY5 | 100 50 | DVEV02613 DVEV02653 |
| ViroReal® Kit Bovine Parainfluenza Virus 3 Detection of RNA of the phosphoprotein P gene of PI3 genotypes A, B and C | FAM | VIC | 100 50 | DVEV02811 DVEV02851 |
| | | CY5 | 100 50 | DVEV02813 DVEV02853 |
| ViroReal® Kit Bovine Torovirus Detection of RNA of the M gene of BToV | FAM | VIC | 100 50 | DVEV01611 DVEV01651 |
| | | CY5 | 100 50 | DVEV01613 DVEV01653 |
| ViroReal® Kit BRSV Detection of RNA of the N protein gene of bovine respiratory syncytial virus | FAM | VIC | 100 50 | DVEV02411 DVEV02451 |
| | | CY5 | 100 50 | DVEV02413 DVEV02453 |
| ViroReal® Kit BVD Virus Detection of RNA of the 5'UTR of bovine viral diarrhea virus (BVDV-1, BVDV-2 and BVDV-3) and of some strains of the classical swine fever virus (CSFV) and border disease virus of sheep (BDV) | FAM | VIC | 50 | DVEV00651 |
| | | CY5 | 100 50 | DVEV00613 DVEV00653 |
| Expansion primer for Border Disease Virus Expansion primers for the detection of BDV of sheep. Only for use in combination with ViroReal® Kit BVD Virus | | | | ADD01 |
| Expansion primer for CSFV like pestivirus Expansion primers for the detection of classical swine fever virus like pestivirus. Only for use in combination with ViroReal® Kit BVD Virus | | | | ADD02 |
| ViroReal® Kit CAEV Detection of RNA of the gag polyprotein gene of caprine arthritis encephalitis virus (CAEV) | FAM | VIC | 100 50 | DVEV03411 DVEV03451 |
| | | CY5 | 100 50 | DVEV03413 DVEV03453 |
| ViroReal® Kit CSF Virus Detection of RNA of the 3'UTR of classical swine fever virus (KSPV) | FAM | VIC | 100 50 | DVEV02311 DVEV02351 |
| | | CY5 | 100 50 | DVEV02313 DVEV02353 |

| Product Name | Channel Pathogen | Channel IPC | Reactions | Order Number |
|--|------------------|-------------|-----------|------------------------|
| ViroReal® Kit EMCV Detection of RNA of the 3'UTR of encephalomyocarditis virus | FAM | VC | 100 | DVEV01011 |
| | | | 50 | DVEV01051 |
| | | CY5 | 100 | DVEV01013 |
| | | | 50 | DVEV01053 |
| ViroReal® Kit Lumpy Skin Disease Virus Detection of DNA of the GPCR gene of Lumpy Skin Disease Virus (LSDV) | FAM | VIC | 100 | DVEV03311 |
| | | | 50 | DVEV03351 |
| | | CY5 | 100 | DVEV03313 |
| | | | 50 | DVEV03353 |
| ViroReal® Kit Maedi-Visna Virus Detection of RNA of the gag polyprotein of Maedi-Visna Virus (MVV) | FAM | VIC | 100 | DVEV03511 |
| | | | 50 | DVEV03551 |
| | | CY5 | 100 | DVEV03513 |
| | | | 50 | DVEV03553 |
| ViroReal® Kit MERS-CoV Detection of RNA of the N gene of Middle East Respiratory Syndrome Coronavirus | VIC | CY5 | 100 50 | DVEV03013 DVEV03053 |
| ViroReal® Kit PCV2 Detection of the ORF1 of porcine circovirus type 2 including the three genotypes A, B and C. A quantitative real-time PCR standard can be ordered separately (order no. PC100). | FAM | VIC | 100 | DVEV00511 |
| | | | 50 | DVEV00551 |
| | | CY5 | 100 | DVEV00513 |
| | | | 50 | DVEV00553 |
| ViroReal® Kit PCV3 Detection of the capsid protein gene of the porcine circovirus type 3 (PCV3) | FAM | VIC | 100 | DVEV03611 |
| | | | 50 | DVEV03651 |
| | | CY5 | 100 | DVEV03613 |
| | | | 50 | DVEV03653 |
| ViroReal® Kit PCMV Detection of the DPOL gene of porcine cytomegalovirus | FAM | VIC | 100 | DVEV01111 |
| | | | 50 | DVEV01151 |
| | | CY5 | 100 | DVEV01113 |
| | | | 50 | DVEV01153 |
| ViroReal® Kit PEDV Detection of RNA of the N gene of porcine epidemic diarrhea virus | FAM | CY5 | 100 50 | DVEV01313 DVEV01353 |
| ViroReal® Kit PEDV & SDCV Detection and differentiation of RNA of the N gene of porcine epidemic diarrhea virus and of the 3'UTR of swine delta coronavirus (PDCoV) | FAM + VIC | CY5 | 100 | DVEV01913 |
| | | | 50 | DVEV01953 |
| ViroReal® Kit PEDV & TGEV Detection and differentiation of RNA of the N gene of porcine epidemic diarrhea virus and of the S region of transmissible gastroenteritis virus | FAM + VIC | CY5 | 100 | DVEV01413 |
| | | | 50 | DVEV01453 |
| ViroReal® Kit PHEV Detection of RNA of the N gene of porcine hemagglutinating encephalomyelitis virus | FAM | VIC | 100 | DVEV01511 |
| | | | 50 | DVEV01551 |
| | | CY5 | 100 | DVEV01513 |
| | | | 50 | DVEV01553 |
| ViroReal® Kit Porcine Parvovirus 1 Detection of the NS1 gene of PPV subtype 1 | FAM | VIC | 100 | DVEV00711 |
| | | | 50 | DVEV00751 |
| | | CY5 | 100 | DVEV00713 |
| | | | 50 | DVEV00753 |
| ViroReal® Kit PRRS Virus EU & NA 1.1 Detection and differentiation of RNA of the ORF 7 / 3' UTR of porcine reproductive and respiratory syndrome virus lineages EU & NA | FAM + VIC | CY5 | 100 | DVEV00113 |
| | | | 50 | DVEV00153 |
| ViroReal® Kit Pseudorabiesvirus (SHV-1) Detection of the glycoprotein B gene of pseudorabiesvirus (suid herpesvirus 1, aujeszky's disease virus) | FAM | VIC | 100 | DVEV02511 |
| | | | 50 | DVEV02551 |
| | | CY5 | 100 | DVEV02513 |
| | | | 50 | DVEV02553 |
| ViroReal® Kit Rabies Virus Detection of RNA of the N gene of RABV | FAM | VIC | 100 | DVEV00811 |
| | | | 50 | DVEV00851 |
| | | CY5 | 100 | DVEV00813 |
| | | | 50 | DVEV00853 |

| Product Name | Channel Pathogen | Channel IPC | Reactions | Order Number |
|--|------------------|-------------|-----------|--------------|
| ViroReal® Kit RHDV Detection of RNA of the vp60 gene of rabbit haemorrhagic disease virus 1&2 | FAM | VIC | 100 | DVEV03111 |
| | | | 50 | DVEV03151 |
| | | CY5 | 100 | DVEV03113 |
| | | | 50 | DVEV03153 |
| ViroReal® Kit Rotavirus Detection of RNA of the NSP4 gene of rotavirus strains genotype A, most strains of genotype B, C and some strains of the other genotypes D-G | FAM | VIC | 100 | DVEV01711 |
| | | | 50 | DVEV01751 |
| | | CY5 | 100 | DVEV01713 |
| | | | 50 | DVEV01753 |
| ViroReal® Kit Schmallenberg Virus Detection of RNA of the nucleocapsid protein gene of schmallenberg virus (SBV) | FAM | VIC | 100 | DVEV03211 |
| | | | 50 | DVEV03251 |
| | | CY5 | 100 | DVEV03213 |
| | | | 50 | DVEV03253 |
| ViroReal® Kit Swine Delta Coronavirus Detection of RNA of the 3'UTR of SDCV (PDCoV) | VIC | CY5 | 100 | DVEV01813 |
| | | | 50 | DVEV01853 |
| ViroReal® Kit Swine Influenza A (SIV) Detection of RNA of the matrix protein gene of influenza A virus | FAM | VIC | 100 | DVEV00411 |
| | | | 50 | DVEV00451 |
| | | CY5 | 100 | DVEV00413 |
| | | | 50 | DVEV00453 |
| ViroReal® Kit TGEV Detection of RNA of the S region of transmissible gastroenteritis virus | VIC | CY5 | 100 | DVEV01213 |
| | | | 50 | DVEV01253 |

General information

Kit content:

- Assay (primer + probe) for detection of pathogen
- Assay (primer + probe + IPC target) for detection of Internal Positive Control (IPC)
- Positive Control
- Reaction Mix
- Water

PCR-platforms:

developed for use with

- ABI® 7500 instrument (Thermo Fisher Scientific)
- Quantstudio™ (Thermo Fisher Scientific)
- LightCycler® 480 (Roche)
- Mx3005P® QPCR System (Agilent)

and designed for compatibility with **real-time PCR instruments** detecting and differentiating fluorescence in FAM and VIC or CY5 channel except capillary systems



ViroReal®, BactoReal®, MycoReal® and ParoReal® Kits run under the same thermal cycling conditions.

RNA and DNA material can be analysed in one PCR run.

Positive control standards

| Product Name | Order Number |
|---|--------------|
| BactoReal® <i>Lawsonia intracellularis</i> Standard Contains a fragment of <i>L. intracellularis</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with BactoReal® Kit <i>Lawsonia intracellularis</i> | PC200 |
| BactoReal® <i>Mycoplasma hyopneumoniae</i> Standard Contains a fragment of <i>M. hyopneumoniae</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with BactoReal® Kit <i>Mycoplasma hyopneumoniae</i> | PC300 |
| BactoReal® <i>Brachyspira hyodysenteriae</i> Standard Contains a fragment of <i>B. hyodysenteriae</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with BactoReal® Kit <i>Brachyspira hyodysenteriae</i> | PC400 |
| BactoReal® <i>Brachyspira pilosicoli</i> Standard Contains a fragment of <i>B. pilosicoli</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with BactoReal® Kit <i>Brachyspira pilosicoli</i> | PC500 |
| BactoReal® <i>Pseudomonas aeruginosa</i> Standard Contains a fragment of <i>P. aeruginosa</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with BactoReal® Kit <i>Pseudomonas aeruginosa</i> | PC900 |
| BactoReal® <i>Salmonella enterica</i> Standard Contains a fragment of <i>S. enterica</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with BactoReal® Kit <i>Salmonella enterica</i> | PC600 |
| BactoReal® <i>Staphylococcus</i> spp. Standard Contains a fragment of <i>Staphylococcus</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with BactoReal® Kit <i>Staphylococcus</i> spp. | PC800 |
| ParoReal® <i>Histomonas meleagridis</i> Standard Contains a fragment of <i>H. meleagridis</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with ParoReal® Kit <i>Histomonas meleagridis</i> | PC700 |
| ViroReal® Porcine circovirus type 2 (PCV2) Standard Contains a fragment of PCV2 DNA at a concentration of 10 ⁷ copies/μl. Only for use with ViroReal® Kit PCV2 | PC100 |
| MycoReal® <i>Nosema apis</i> Standard Contains a fragment of <i>Nosema apis</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with MycoReal® Kit <i>Nosema apis</i> & <i>ceranae</i> | PC1000 |
| MycoReal® <i>Nosema ceranae</i> Standard Contains a fragment of <i>Nosema ceranae</i> DNA at a concentration of 10 ⁷ copies/μl. Only for use with MycoReal® Kit <i>Nosema apis</i> & <i>ceranae</i> | PC1001 |

BactoReal® Kits for typing of bacteria

| Product Name | Channel Pathogen | Order Number |
|--|--------------------|--------------|
| BactoReal® Typing Kit <i>E. coli</i> v.1.1 Detection of porcine <i>E. coli</i> virulence-associated genes (F4, F5, F6, F18, F41, STa1, STb2, LT, Stx2e, EAST1, fimA, AIDA-I, pAA, escV, cbf1, iucD, papC, pic). Typing of <i>E. coli</i> via melting curves. | SYBR® Green Filter | DVET001 |

ViroReal® Kits for typing of virus

| Product Name | Channel Pathogen | Order Number |
|---|--------------------|--------------|
| ViroReal® Typing Kit PCV2 a, b, d Detection of the capsid gene of porcine circovirus type 2 (PCV2) and genotyping of PCV a, PCV b and PCV d via melting curves. | SYBR® Green Filter | DVET002 |

Assays for detection of internal positive control

For use with ingenetix assays or customer assays

| Product Name | Channel | Order Number |
|---|------------------|--------------|
| ControlReal 1 Detection of internal control DNA target (in assay mix). Recommended for ABI® 7500, Quantstudio™, Mx3005P® | VIC | RTGMCR-1 |
| ControlReal 2 Detection of internal control DNA target (in assay mix). Recommended for LightCycler® 1.2/1.5/2.0 | NED (F2, 610 nm) | RTGMCR-2 |
| ControlReal 3 Detection of internal control DNA target (in assay mix). Recommended for ABI® 7500, Quantstudio™, LightCycler® 480, Mx3005P® | CY5 | RTGMCR-3 |
| Internal Positive Control Assay 1 Detection of internal control DNA target (in extra tube). Recommended for ABI® 7500, Quantstudio™, Mx3005P® | VIC | RTGMIPC-1 |
| Internal Positive Control Assay 2 Detection of internal control DNA target (in extra tube). Recommended for LightCycler® 1.2/1.5/2.0 | NED (F2, 610 nm) | RTGMIPC-2 |
| Internal Positive Control Assay 3 Detection of internal control DNA target (in extra tube). Recommended for ABI® 7500, Quantstudio™, LightCycler® 480, Mx3005P® | CY5 | RTGMIPC-3 |
| Internal Positive RNA Control Assay 1 Detection of internal control RNA target (in extra tube). Recommended for ABI® 7500, Quantstudio™, Mx3005P® | VIC | RTGMIPCR1 |
| Internal Positive RNA Control Assay 2 Detection of internal control RNA target (in extra tube). Recommended for LightCycler® 1.2/1.5/2.0 | NED (F2, 610 nm) | RTGMIPCR2 |
| Internal Positive RNA Control Assay 3 Detection of internal control RNA target (in extra tube). Recommended for ABI® 7500, Quantstudio™, LightCycler® 480, Mx3005P® | CY5 | RTGMIPCR3 |