

## BactoReal<sup>®</sup> assays for detection of bacteria

Product Name	Channel Pathogen	Order Number
<b>BactoReal<sup>®</sup> Actinobacillus pleuropneumoniae</b> Detection of the apxIVA gene of <i>A. pleuropneumoniae</i>	FAM	RTGV550
<b>BactoReal<sup>®</sup> Aerococcus viridans</b> Detection of the 16S rRNA gene of <i>A. viridans</i>	FAM	RTGV912
<b>BactoReal<sup>®</sup> American Foulbrood 1.1</b> Detection of the 16S rRNA gene of <i>Paenibacillus larvae</i>	FAM	RTGV924
<b>BactoReal<sup>®</sup> Bartonella spp.</b> 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	RTGV1260
<b>BactoReal<sup>®</sup> Bordetella bronchiseptica</b> Detection of the bfrA gene of <i>B. bronchiseptica</i>	FAM	RTGV1250
<b>BactoReal<sup>®</sup> Borrelia burgdorferi sensu lato</b> 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	RTGV1270
<b>BactoReal<sup>®</sup> Brachyspira hyo/pilo</b> Combined detection of the nox gene of <i>B. hyopneumoniae</i> and <i>B. pilosicoli</i> . No differentiation between species.	FAM	RTGV600
<b>BactoReal<sup>®</sup> Brachyspira hyodysenteriae</b> Detection of the nox gene of <i>B. hyodysenteriae</i>	FAM	RTGV610
<b>BactoReal<sup>®</sup> Brachyspira pilosicoli</b> Detection of the nox gene of <i>B. pilosicoli</i>	FAM	RTGV620
<b>BactoReal<sup>®</sup> Brucella spp.</b> 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	RTGV1201
<b>BactoReal<sup>®</sup> Campylobacter spp.</b> <small>New</small> Detection of the 16S rRNA gene of <i>Campylobacter</i> species	FAM	RTGV704
<b>BactoReal<sup>®</sup> Chlamydiaceae</b> 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	RTGV1400
<b>BactoReal<sup>®</sup> Chlamydophila psittaci/abortus</b> Detection of the omp1 gene of <i>C. abortus</i> and <i>C. psittaci</i>	FAM	RTGV1410
<b>BactoReal<sup>®</sup> Clostridium difficile</b> Detection of the toxin A (tcdA) gene and toxin B (tcdB) gene of <i>C. difficile</i>	FAM + VIC / HEX	RTGV920
<b>BactoReal<sup>®</sup> Clostridium perfringens</b> Detection of the 16S rRNA gene of <i>Clostridium perfringens</i>	FAM	RTGV928
<b>BactoReal<sup>®</sup> Corynebacterium pseudotuberculosis</b> Detection of the pld gene of <i>Corynebacterium pseudotuberculosis</i>	FAM	RTGV919
<b>BactoReal<sup>®</sup> Coxiella burnetii</b> Detection of the IS1111 insertion sequence of <i>C. burnetii</i>	FAM	RTGV231

Product Name	Channel Pathogen	Order Number
<b>BactoReal® Enterococcus spp.</b> Detection of the 23S rRNA gene of <i>Enterococcus</i> species	FAM	RTGV905
<b>BactoReal® Escherichia coli</b> Detection of the <i>dxs</i> gene of <i>E. coli</i> and <i>Shigella</i>	FAM	RTGV914
<b>BactoReal® E. coli Typing stx1 &amp; stx2 (STEC)</b> Detection of virulence-associated genes <i>stx1</i> and <i>stx2</i> (verotoxin) of <i>E. coli</i>	FAM + VIC / HEX	RTGV935
<b>BactoReal® E. coli Typing eae &amp; ehxA (EHEC, EPEC)</b> Detection of virulence-associated genes <i>eae</i> (intimin) and <i>ehxA</i> (enterohemolysin) of <i>E. coli</i>	FAM + VIC / HEX	RTGV936
<b>BactoReal® E. coli Typing eae (EHEC or EPEC)</b> Detection of virulence-associated gene <i>eae</i> (intimin) of <i>E. coli</i>	FAM	RTGV937
<b>BactoReal® E. coli Typing ehxA (EHEC)</b> Detection of virulence-associated gene <i>ehxA</i> (enterohemolysin) of <i>E. coli</i>	VIC / HEX	RTGV938
<b>BactoReal® European Foulbrood</b> Detection of the 16S rRNA gene of <i>Melissococcus plutonius</i>	FAM	RTGV923
<b>BactoReal® Footrot <sup>New</sup></b> Detection of the <i>prpA</i> gene of <i>Dichelobacter nodosus</i> and the <i>gyrB</i> gene of <i>Fusobacter necrophorum</i> subsp. <i>necrophorum</i>	FAM	RTGV941
<b>BactoReal® Haemophilus parasuis</b> Detection of the 16S rRNA gene of <i>H. parasuis</i>	FAM	RTGV500
<b>BactoReal® Histophilus somni</b> Detection of the 16S rRNA gene of <i>H. somni</i>	FAM	RTGV333
<b>BactoReal® Klebsiella <sup>New</sup></b> Detection of the hemolysin gene of <i>K. pneumoniae</i> , <i>K. variicola</i> , <i>K. oxytoca</i> , <i>K. aerogenes</i>	FAM	RTGV340
<b>BactoReal® Lawsonia intracellularis</b> Detection of the 16S rRNA gene of <i>L. intracellularis</i>	FAM	RTGV300
<b>BactoReal® Leptospira spp. (16S rDNA)</b> Detection of the 16S rRNA gene of pathogenic and intermediately pathogenic <i>Leptospira</i> species	VIC / HEX	RTGV200
<b>BactoReal® Leptospira spp. (LipL32)</b> Detection of the LipL32 gene of pathogenic <i>Leptospira</i> species	FAM	RTGV201
<b>BactoReal® Leptospira spp. Multiplex (16S rDNA + LipL32)</b> Detection and differentiation of LipL32 gene of pathogenic and 16S rRNA gene of pathogenic and intermediately pathogenic <i>Leptospira</i> species	FAM + VIC / HEX	RTGV202
<b>BactoReal® Listeria monocytogenes</b> Detection of the <i>hlyA</i> gene of <i>L. monocytogenes</i>	FAM	RTGV1200
<b>BactoReal® Mannheimia haemolytica</b> Detection of the 16S rRNA gene of <i>M. haemolytica</i>	FAM	RTGV222
<b>BactoReal® Mycobacterium avium ssp. paratuberculosis</b> Detection of the IS900 region of <i>M. avium</i> subspecies <i>paratuberculosis</i>	FAM	RTGV240
<b>BactoReal® Mycobacterium tuberculosis complex</b> 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> , <i>M. microti</i> )	FAM	RTGV250
<b>BactoReal® Mycoplasma bovis</b> Detection of the <i>rpoB</i> gene of <i>M. bovis</i>	FAM	RTGV1300
<b>BactoReal® Mycoplasma gallisepticum</b> Detection of the <i>mgc2</i> gene of <i>M. gallisepticum</i>	FAM	RTGV908
<b>BactoReal® Mycoplasma hyopneumoniae</b> Detection of the <i>rpoB</i> gene of <i>M. hyopneumoniae</i>	FAM	RTGV210

Product Name	Channel Pathogen	Order Number
<b>BactoReal® <i>Mycoplasma hyorhinis</i></b> Detection of the rpoB gene of <i>M. hyorhinis</i>	FAM	RTGV220
<b>BactoReal® <i>Mycoplasma suis</i></b> Detection of the 16S rRNA gene of <i>M. suis</i>	FAM	RTGV215
<b>BactoReal® <i>Mycoplasma synoviae</i></b> Detection of the vlhA gene of <i>M. synoviae</i>	FAM	RTGV907
<b>BactoReal® <i>Nocardia</i> spp.</b> Detection of the 16S rRNA gene of <i>Nocardia</i> species	FAM	RTGV909
<b>BactoReal® <i>Ornithobacterium rhinotracheale</i></b> Detection of the 16S rRNA gene of <i>Ornithobacterium rhinotracheale</i>	FAM	RTGV927
<b>BactoReal® <i>Pasteurella multocida</i></b> 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	RTGV444
<b>BactoReal® <i>Pasteurella multocida</i> toxA</b> Detection of the toxA gene of toxigenic <i>Pasteurella multocida</i> strains (PMT)	FAM	RTGV400
<b>BactoReal® <i>Pseudomonas aeruginosa</i></b> Detection of the 16S rRNA gene of <i>P. aeruginosa</i>	FAM	RTGV913
<b>BactoReal® <i>Riemerella anatipestifer</i></b> Detection of the 16S-23S ribosomal RNA intergenic spacer of <i>R. anatipestifer</i>	FAM	RTGV232
<b>BactoReal® <i>Salmonella enterica</i></b> Detection of the invA gene of <i>Salmonella enterica</i>	FAM	RTGV926
<b>BactoReal® <i>Staphylococcus aureus</i></b> Detection of the nuc gene of <i>S. aureus</i>	FAM	RTGV800
<b>BactoReal® <i>Staphylococcus</i> spp.</b> Detection of the 23S rRNA gene of <i>Staphylococcus</i> species	FAM	RTGV804
<b>BactoReal® <i>Streptococcus agalactiae</i></b> Detection of the cfb gene of <i>S. agalactiae</i>	FAM	RTGV900
<b>BactoReal® <i>Streptococcus dysgalactiae</i></b> 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 / HEX	RTGV903
<b>BactoReal® <i>Streptococcus suis</i></b> Detection of the fbpS gene of <i>S. suis</i>	FAM	RTGV233
<b>BactoReal® <i>Streptococcus uberis</i></b> Detection of the ITS2 region of <i>S. uberis</i>	FAM	RTGV700
<b>BactoReal® <i>Streptococcus</i> spp.</b> Detection of the 23S rRNA gene of <i>Streptococcus</i> species	FAM	RTGV904
<b>BactoReal® <i>Taylorella equigenitalis</i></b> Detection of the 16S rRNA gene of <i>T. equigenitalis</i>	FAM	RTGV510
<b>BactoReal® <i>Trueperella pyogenes</i></b> Detection of the 16S rRNA gene of <i>T. pyogenes</i>	FAM	RTGV910

## BactoTyping for typing of bacteria

Product Name	Channel Pathogen	Order Number
<b>BactoTyping Kit <i>E. coli</i> v.1.1</b> 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
<b>BactoTyping GTB - <i>Staphylococcus aureus</i></b> Detection of lucE point mutation, <i>sea</i> , <i>sed</i> . Typing with probes (FAM, VIC)	FAM, VIC	ING05

## Mycoreal assays for detection of fungi

Product Name	Channel Pathogen	Order Number
<b>Mycoreal <i>Ascosphaera apis</i></b> Detection of the ITS-1 region of <i>Ascosphaera apis</i>	FAM	RTGV932
<b>Mycoreal <i>Batrachomyces dendrobatidis</i></b> Detection of the ITS-1 region of <i>B. dendrobatidis</i>	FAM	RTGV939
<b>Mycoreal <i>Nosema apis</i> &amp; <i>ceranae</i></b> Detection of the 18S rRNA gene of <i>Nosema apis</i> and <i>Nosema ceranae</i>	FAM + VIC / HEX	RTGV940

## Paroreal assays for detection of parasites

Product Name	Channel Pathogen	Order Number
<b>Paroreal <i>Cryptosporidium parvum</i></b> Detection of the GP60 gene of <i>C. parvum</i>	FAM	RTGV270
<b>Paroreal <i>Echinococcus multilocularis</i></b> Detection of the mitochondrial ND1 gene of <i>E. multilocularis</i>	FAM	RTGV266
<b>Paroreal <i>Histomonas meleagridis</i></b> Detection of the 18S rRNA gene of <i>H. meleagridis</i>	FAM	RTGV267
<b>Paroreal <i>Neospora caninum</i></b> Detection of the mitochondrial NC5 gene of <i>N. caninum</i>	FAM	RTGV269
<b>Paroreal <i>Trichinella spiralis</i> &amp; <i>britovi</i></b> Detection and differentiation of the internal transcribed spacer of <i>Trichinella spiralis</i> and <i>T. britovi</i>	FAM + VIC / HEX	RTGV268

## ViroReal® assays for detection of viruses

Product Name	Channel	Pathogen	Order Number
<b>ViroReal® African Swine Fever Virus</b> Detection of DNA of the major capsid protein gene p72 of ASFV	FAM		RTGV120
<b>ViroReal® Bluetongue Virus</b> Detection of RNA of the segment 10 (NS3) of BTV	FAM		RTGV22
<b>ViroReal® Bovine Coronavirus</b> Detection of RNA of the N gene of BCoV	FAM		RTGV20
<b>ViroReal® Kit Bovine Herpesvirus 1</b> Detection of DNA of the UL27 gene of BoHV1 causing IBR and IPV	FAM		RTGV28
<b>ViroReal® Bovine Nebovirus</b> Detection of RNA of the ORF1 of bovine nebovirus	FAM		RTGV23
<b>ViroReal® Bovine Norovirus</b> Detection of RNA of the ORF1 of bovine norovirus genotypes GIII.1 and GIII.2	FAM		RTGV21
<b>ViroReal® Bovine Parainfluenza Virus 3</b> Detection of RNA of the phosphoprotein P gene of PI3 genotypes A, B and C	FAM		RTGV24
<b>ViroReal® Bovine Torovirus</b> Detection of RNA of the M gene of BToV	FAM		RTGV90
<b>ViroReal® BRSV</b> Detection of RNA of the N protein gene of bovine respiratory syncytial virus	FAM		RTGV25
<b>ViroReal® CAEV</b> Detection of RNA of the gag polyprotein gene of caprine arthritis encephalitis virus (CAEV)	FAM		RTGV35
<b>ViroReal® CSF Virus</b> Detection of RNA of the 3'UTR of classical swine fever virus (KSPV)	FAM		RTGV26
<b>ViroReal® EMCV</b> Detection of RNA of the 3'UTR of EMCV	FAM		RTGV30
<b>ViroReal® Lumpy Skin Disease Virus</b> Detection of DNA of the GPCR gene of Lumpy Skin Disease Virus (LSDV)	FAM		RTGV34
<b>ViroReal® Maedi-Visna Virus</b> Detection of RNA of the gag polyprotein of Maedi-Visna Virus (MVV)	FAM		RTGV36
<b>ViroReal® MERS-CoV</b> Detection of RNA of the N gene of Middle East Respiratory Syndrome Coronavirus	VIC		RTGV31
<b>ViroReal® PCV2</b> Detection of the ORF1 of the 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		RTGV100
<b>ViroReal® PCV3</b> Detection of the capsid protein gene of the porcine circovirus type 3 (PCV3)	FAM		RTGV103
<b>ViroReal® PCMV</b> Detection of the DPOL gene of the porcine cytomegalovirus	FAM		RTGV40
<b>ViroReal® PEDV</b> Detection of RNA of the N gene of the porcine epidemic diarrhea virus	FAM		RTGV80

Product Name	Channel Pathogen	Order Number
<b>ViroReal® PEDV &amp; TGEV</b> Detection and differentiation of RNA of the N gene of the porcine epidemic diarrhea virus and of the S region of the transmissible gastroenteritis virus	FAM + VIC / HEX	RTGV68
<b>ViroReal® PEDV &amp; SDCV</b> Detection and differentiation of RNA of the N gene of the porcine epidemic diarrhea virus and of the 3'UTR of the swine delta coronavirus (PDCoV)	FAM + VIC / HEX	RTGV69
<b>ViroReal® PHEV</b> Detection of RNA of the N gene of the porcine hemagglutinating encephalomyelitis virus	FAM	RTGV88
<b>ViroReal® Porcine Parvovirus 1</b> Detection of the NS1 gene of PPV subtype 1	FAM	RTGV010
<b>ViroReal® PRRS Virus EU &amp; NA 1.1</b> Detection and differentiation of RNA of the ORF 7 / 3' UTR of porcine reproductive and respiratory syndrome virus lineages EU & NA	FAM + VIC / HEX	RTGV1R01
<b>ViroReal® Pseudorabiesvirus (SHV-1)</b> Detection of the glycoprotein B gene of pseudorabiesvirus (suid herpesvirus 1, aujeszky's disease virus)	FAM	RTGV27
<b>ViroReal® Rabies Virus</b> Detection of RNA of the N gene of RABV	FAM	RTGV255
<b>ViroReal® RHDV</b> Detection of RNA of the vp60 gene of rabbit haemorrhagic disease virus 1&2	FAM	RTGV32
<b>ViroReal® Rotavirus</b> 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	RTGV70
<b>ViroReal® Sacbrood Virus</b> Detection of RNA of the polyprotein gene of sacbrood virus (SBV)	FAM	RTGV933
<b>ViroReal® Schmallenberg Virus</b> Detection of RNA of the nucleocapsid protein gene of schmallenberg virus (SBV)	FAM	RTGV33
<b>ViroReal® Swine Delta Coronavirus</b> Detection of RNA of the 3'UTR of SDCV (PDCoV)	VIC / HEX	RTGV110
<b>ViroReal® Swine Influenza A (SIV)</b> Detection of RNA of the matrix protein gene of the influenza A virus	FAM	RTGV15
<b>ViroReal® TGEV</b> Detection of RNA of the S region of the transmissible gastroenteritis virus	VIC / HEX	RTGV60

## Positive control standards

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

## Assays for detection of internal positive control

For use with ingenetix assays or customer assays

Product Name	Channel	Order Number
<b>ControlReal 1</b> Detection of internal control DNA target (in assay mix). Recommended for Applied Biosystems® 7500, Mx3005P®	VIC / HEX	RTGMCR-1
<b>ControlReal 2</b> Detection of internal control DNA target (in assay mix). Recommended for LightCycler® 1.2/1.5/2.0	NED (F2, 610 nm)	RTGMCR-2
<b>ControlReal 3</b> Detection of internal control DNA target (in assay mix). Recommended for Applied Biosystems® 7500, LightCycler® 480, Mx3005P®	Cy5	RTGMCR-3
<b>Internal Positive Control Assay 1</b> Detection of internal control DNA target (in extra tube). Recommended for Applied Biosystems® 7500, Mx3005P®	VIC / HEX	RTGMIPC-1
<b>Internal Positive Control Assay 2</b> Detection of internal control DNA target (in extra tube). Recommended for LightCycler® 1.2/1.5/2.0	NED (F2, 610 nm)	RTGMIPC-2
<b>Internal Positive Control Assay 3</b> Detection of internal control DNA target (in extra tube). Recommended for Applied Biosystems® 7500, LightCycler® 480, Mx3005P®	Cy5	RTGMIPC-3
<b>Internal Positive RNA Control Assay 1</b> Detection of internal control RNA target (in extra tube). Recommended for Applied Biosystems® 7500, Mx3005P®	VIC / HEX	RTGMIPCR1
<b>Internal Positive RNA Control Assay 2</b> Detection of internal control RNA target (in extra tube). Recommended for LightCycler® 1.2/1.5/2.0	NED (F2, 610 nm)	RTGMIPCR2
<b>Internal Positive RNA Control Assay 3</b> Detection of internal control RNA target (in extra tube). Recommended for Applied Biosystems® 7500, LightCycler® 480, Mx3005P®	Cy5	RTGMIPCR3

## General information

### Content:

- Assay (primer + probe) for detection of pathogen (100 reactions)
- Positive Control
- Not included but available separately: Assay (primer + probe) for the detection of internal positive control (50 reactions)
- Not included: Amplification mix
  - Recommended amplification mix, depending on PCR-platform and template
    - TaqMan® Fast Advanced Master Mix (Thermo Fisher Scientific) for DNA target
    - TaqMan® Fast Virus 1-step Master Mix (Thermo Fisher Scientific) for RNA target
    - For LightCycler® 1.2/1.5/2.0: QuantiTect® Probe RT-PCR Kit (Qiagen) or LC™-FastStart DNA Master Kit Hybridisation Probes (Roche)

### PCR-platforms:

- Applied Biosystems® 7500 instrument (Thermo Fisher Scientific)
- Mx3005P® QPCR System (Agilent)
- LightCycler® 480 (Roche)
- LightCycler® 1.2/1.5/2.0 (Roche) (only some assays)



**BactoReal®, MycoReal®, ParoReal® and ViroReal® assays are optimized to run under the same thermal cycling conditions**

**Assays can be combined with assays for detection of an internal positive control in the same reaction**

**Assays are also available as kits (containing the amplification mix and an internal positive control assay)**