

BactoReal[®] Kits for detection of bacteria

Product Name	Channel Pathogen	Order Number
BactoReal[®] Kit <i>A. baumannii</i> & <i>P. mirabilis</i> (CE-IVD) <i>Coming soon</i> Detection of the rpoB gene of <i>A. baumannii</i> and the ureC gene of <i>P. mirabilis</i>	FAM & VIC	DHUS00653
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	DHUB03953
BactoReal[®] Kit <i>Bordetella bronchiseptica</i> Detection of the bfrA gene of <i>B. bronchiseptica</i>	FAM	DHUB02453
BactoReal[®] Kit <i>Bordetella parapertussis</i> Detection of the insertion sequence IS1001 of <i>B. parapertussis</i> , and of some strains of <i>B. bronchiseptica</i> and <i>B. holmesii</i>	FAM	DHUB00253
BactoReal[®] Kit <i>Bordetella pertussis</i> Detection of the insertion sequence IS481 of <i>B. pertussis</i> , <i>B. holmesii</i> and some strains of <i>B. bronchiseptica</i>	FAM	DHUB00353
BactoReal[®] Kit <i>Borrelia burgdorferi sensu lato</i> (CE-IVD) Detection of the ospA gene of <i>Borrelia</i> species belonging to the <i>Borrelia burgdorferi sensu lato</i> complex	FAM	DHUB05053
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	DHUB02153
BactoReal[®] Kit <i>Chlamydomphila pneumoniae</i> Detection of the ompA gene of <i>C. pneumoniae</i>	FAM	DHUB00953
BactoReal[®] Kit <i>Chlamydomphila psittaci/abortus</i> Detection of the omp1 gene of <i>C. abortus</i> and <i>C. psittaci</i>	FAM	DHUB03053
BactoReal[®] Kit <i>Clostridium difficile</i> Toxins <i>Coming Soon</i> Detection and differentiation of toxin A (tcdA), toxin B (tcdB) and binary toxin gene of <i>C. difficile</i>	FAM & VIC	DHUB04253
BactoReal[®] Kit <i>E. coli</i> Toxin Typing Detection of the toxin genes stx1, stx2 (verotoxin), eae (intimin) and ehxA (enterohemolysin) of <i>E. coli</i>	FAM & VIC	DHUB02753
BactoReal[®] Kit <i>E. coli</i> & <i>Klebsiella</i> (CE-IVD) <i>Coming soon</i> Detection of the dxs gene of <i>E. coli</i> and the khe gene of <i>K. pneumoniae</i> , <i>K. variicola</i> , <i>K. oxytoca</i>	FAM & VIC	DHUS00153
BactoReal[®] Kit VRE (vanA) & <i>Enterococcus</i> spp. (CE-IVD) <i>Coming soon</i> Detection of the vanA gene and the 23S rRNA gene of <i>Enterococcus</i> spp.	FAM & VIC	DHUS00453
BactoReal[®] Kit <i>P. aeruginosa</i> & <i>Enterobacter</i> spp. (CE-IVD) <i>Coming soon</i> Detection of the 16S rRNA gene of <i>P. aeruginosa</i> and the rpoB gene of <i>Enterobacter</i> spp.	FAM & VIC	DHUS00553
BactoReal[®] Kit <i>Haemophilus influenzae</i> (CE-IVD) Detection of the ompP6 gene of <i>H. influenzae</i>	FAM	DHUB01053

Product Name	Channel Pathogen	Order Number
BactoReal® Kit Klebsiella Detection of the hemolysin gene of <i>K. pneumoniae</i> , <i>K. variicola</i> , <i>K. oxytoca</i> , <i>K. aerogenes</i>	FAM	DHUB02853
BactoReal® Kit Legionella pneumophila (CE-IVD) Detection of the 23S-5S rDNA intergenic spacer region of <i>L. pneumophila</i>	FAM	DHUB01153
BactoReal® Kit Leptospira spp. (16S rDNA) Detection of the 16S rRNA gene of pathogenic and intermediately pathogenic <i>Leptospira</i> species	VIC	DHUB00553
BactoReal® Kit Leptospira spp. (LipL32) Detection of the LipL32 gene of pathogenic <i>Leptospira</i> species	FAM	DHUB00653
BactoReal® Kit Leptospira spp. Multiplex (16S rDNA + LipL32) Detection and differentiation of LipL32 and 16S rRNA gene of pathogenic and intermediately pathogenic <i>Leptospira</i> species	FAM & VIC	DHUB00753
BactoReal® Kit Listeria monocytogenes (CE-IVD) Detection of the hlyA gene of <i>L. monocytogenes</i>	FAM	DHUB00853
BactoReal® Kit Mycoplasma pneumoniae (CE-IVD) Detection of the 16S rRNA gene of <i>M. pneumoniae</i>	FAM	DHUB01253
BactoReal® Kit Neisseria gonorrhoeae (CE-IVD) Detection of the 16S rRNA gene of <i>N. gonorrhoeae</i>	FAM	DHUB01353
BactoReal® Kit Neisseria meningitidis (CE-IVD) Detection of the ctrA gene of <i>N. meningitidis</i>	FAM	DHUB00153
BactoReal® Kit Pseudomonas aeruginosa Detection of the 16S rRNA gene of <i>P. aeruginosa</i>	FAM	DHUB002653
BactoReal® Kit Salmonella enterica Detection of the invA gene of <i>S. enterica</i>	FAM	DHUB02553
BactoReal® Kit Staphylococcus spp. & S. aureus (CE-IVD) Coming soon Detection of the 23S rRNA gene of <i>Staphylococcus</i> spp. and the nuc gene of <i>S. aureus</i>	FAM & VIC	DHUS00253
BactoReal® Kit Streptococcus agalactiae Detection of the cfb gene of <i>S. agalactiae</i>	FAM	DHUB01553
BactoReal® Kit S. pneumoniae & Streptococcus spp. (CE-IVD) Coming soon Detection of the lytA gene of <i>S. pneumoniae</i> and the 23S rRNA gene of <i>Streptococcus</i> spp.	FAM & VIC	DHUS00353
BactoReal® Kit Streptococcus pneumoniae (CE-IVD) Detection of the lytA gene of <i>S. pneumoniae</i>	FAM	DHUB01453
BactoReal® Kit Tropheryma whipplei Detection of the groEL gene of <i>T. whipplei</i>	FAM	DHUB01653

ViroReal[®] Kits for detection of viruses

Product Name	Channel Pathogen	Order Number
ViroReal[®] Kit Adenovirus (CE-IVD) Detection of the hexon gene of human adenovirus species A-G	FAM	DHUV00153
ViroReal[®] Kit Enterovirus (CE-IVD) Detection of RNA of the 5' UTR of enterovirus	FAM	DHUV00353
ViroReal[®] Kit HDV Detection of the 5'UTR of human hepatitis D virus	FAM	DHUV00953
ViroReal[®] Kit HHV-6A, B Detection of the U65/U66 gene of human herpes virus type 6 subtypes A and B	FAM	DHUV00653
ViroReal[®] Kit HHV-6A Detection of the U65/U66 gene of human herpes virus type 6 subtype A	FAM	DHUV00453
ViroReal[®] Kit HHV-6B Detection of the U65/U66 gene of human herpes virus type 6 subtype B	FAM	DHUV00553
ViroReal[®] Kit HHV-7 Detection of the glycoprotein H gene of human herpes virus type 7	FAM	DHUV00753
ViroReal[®] Kit HHV-8 Detection of the ORF26 of human herpes virus type 8	FAM	DHUV00853
ViroReal[®] Kit Human Coronavirus alpha Detection of RNA of the N gene of human coronavirus NL63 and 229E	FAM & VIC	DHUV01153
ViroReal[®] Kit Human Coronavirus beta Detection of RNA of the N gene of human coronavirus HKU1, OC43, MERS	FAM & VIC	DHUV01253
ViroReal[®] Kit Influenza A (CE-IVD) Detection of RNA of the matrix protein gene of influenza A virus	FAM	DHUV01353
ViroReal[®] Kit Influenza B (CE-IVD) Detection of RNA of the hemagglutinin gene of influenza B virus	FAM	DHUV01453
ViroReal[®] Kit Metapneumovirus* (CE-IVD) Detection of RNA of the nucleocapsid protein gene of hMPV A and hMPV B	FAM	DHUV01553
ViroReal[®] Kit Parainfluenzavirus (CE-IVD) Detection of RNA of the HN gene of HPIV-1, HPIV-2, HPIV-3, HPIV-4	FAM & VIC	DHUV01653
ViroReal[®] Kit Parechovirus Detection of RNA of the polyprotein gene of human parechovirus strains 1-6	FAM	DHUV01753
ViroReal[®] Kit Parvovirus B19 Detection of the VP1 gene of parvovirus B19 genotypes 1, 2 and 3	FAM	DHUV01853
ViroReal[®] Kit Rhinovirus (A, B, C) (CE-IVD) Detection of RNA of the 5' UTR of human rhinovirus A, B and C	FAM	DHUV01953
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	DHUV02053

Product Name	Channel Pathogen	Order Number
ViroReal® Kit RSV (A & B) (CE-IVD) Detection of RNA of the nucleocapsid protein gene of human respiratory syncytial virus subtypes A & B	FAM	DHUV02153
ViroReal® Kit SARS-CoV2 & SARS (CE-IVD) Detection of RNA of the nucleocapsid protein gene of Sarbecovirus (coronavirus SARS-CoV-2, SARS-CoV and SARS-like CoV)	FAM	DHUV02353 DHUV02313 DHUV02313x5
ViroReal® Assay Influenza A/B (CE-IVD) Detection of RNA of the matrix protein gene of influenza A virus and of RNA of the hemagglutinin gene of influenza B virus Only for use in combination with ViroReal® Kit SARS-CoV-2 & SARS	VIC	RTGM001RV RTGM002RV
ViroReal® Kit SARS-CoV2 Multiplex (CE-IVD) Detection of RNA of the nucleocapsid protein (N) gene of Sarbecovirus inclusively SARS-CoV-2 and of RNA-dependent RNA polymerase (RdRp) gene of SARS-CoV-2	FAM + VIC	DHUV02413 DHUV02413x5
ViroReal® Kit SARS Coronavirus & Influenza A/B (CE-IVD) Detection of RNA of the nucleocapsid protein (N) gene of Sarbecovirus inclusively SARS-CoV-2, of RNA of the matrix protein gene of influenza A virus and of RNA of the hemagglutinin gene of influenza B virus	FAM + VIC	DHUV02513 DHUV02513x5
ViroReal® Kit RT-LAMP SARS-CoV-2 (CE-IVD) Detection of RNA of the ORF1ab region of Sarbecovirus inclusively SARS-CoV-2	FAM	DHUV02610 DHUV02610x5
ViroReal® Kit VZV Detection of the ORF29 of varicella zoster virus	FAM	DHUV02253

*not available in BE, DE, DK, ES, FR, GB, IT, LI, NL, AU, CN, JP, KR, TW, US, PL, NO, CH, HU, IE, LU, TR

MycoReal Kits for detection of fungi

Product Name	Channel Pathogen	Order Number
MycoReal Kit Aspergillus (CE-IVD) NEW Detection and differentiation of the ITS2 region of <i>A. fumigatus</i> , <i>A. flavus</i> , <i>A. terreus</i> , <i>A. niger</i> and <i>A. nidulans</i>	FAM & VIC	DHUF00253
MycoReal Kit Candida & A. fumigatus (CE-IVD) NEW Detection and differentiation of the ITS2 region of <i>C. albicans</i> , <i>C. tropicalis</i> , <i>C. dubliniensis</i> , <i>C. glabrata</i> , <i>C. krusei</i> and <i>C. parapsilosis</i> complex	FAM & VIC	DHUF00153
MycoReal Kit Pneumocystis New Detection of the mt LSU gene of <i>Pneumocystis jirovecii</i>	FAM	DHUF00353

PanReal Kit for universal detection of fungi and bacteria

Product Name	Channel Pathogen	Order Number
PanReal Kit Fungi & Bacteria Detection of the ITS2 region of fungi and the 16S rRNA gene of bacteria	FAM & VIC	DHUFB0153

ParoReal Kits for detection of parasites

Product Name	Channel Pathogen	Order Number
ParoReal Kit Acanthamoeba Detection of the 18S rRNA gene of <i>Acanthamoeba</i>	FAM	DHUP00153

SeptiReal® Kits for detection of bacteria and fungi of sepsis patients

Product Name	Channel Pathogen	Order Number
SeptiReal® Kit Module 1-8 (CE-IVD) <i>Coming soon</i> Module 1: <i>E. coli</i> (dxs gene) + <i>K. pneumoniae</i> , <i>K. variicola</i> , <i>K. oxytoca</i> (khe gene) Module 2: <i>Staphylococcus</i> spp. (23S rRNA gene) + <i>S. aureus</i> (nuc gene) Module 3: <i>S. pneumoniae</i> (lytA gene) + <i>Streptococcus</i> spp. (23S rRNA gene) Module 4: Vancomycin resistance (vanA gene) + <i>Enterococcus</i> spp. (23S rRNA gene) Module 5: <i>P. aeruginosa</i> (16S rRNA gene) + <i>Enterobacter</i> spp. (rpoB gene) Module 6: <i>A. baumannii</i> (rpoB gene) + <i>P. mirabilis</i> (ureC gene) Module 7: <i>C. parapsilosis</i> complex + <i>C. glabrata</i> , <i>C. krusei</i> and (ITS2 region) Module 8: <i>C. albicans</i> , <i>C. tropicalis</i> , <i>C. dubliniensis</i> + <i>A. fumigatus</i> (ITS2 region)	FAM & VIC	DHUS01853
SeptiReal® Kit Module 1-6 (CE-IVD) <i>Coming soon</i> Module 1: <i>E. coli</i> (dxs gene) + <i>K. pneumoniae</i> , <i>K. variicola</i> , <i>K. oxytoca</i> (khe gene) Module 2: <i>Staphylococcus</i> spp. (23S rRNA gene) + <i>S. aureus</i> (nuc gene) Module 3: <i>S. pneumoniae</i> (lytA gene) + <i>Streptococcus</i> spp. (23S rRNA gene), Module 4: Vancomycin resistance (vanA gene) + <i>Enterococcus</i> spp. (23S rRNA gene) Module 5: <i>P. aeruginosa</i> (16S rRNA gene) + <i>Enterobacter</i> spp. (rpoB gene) Module 6: <i>A. baumannii</i> (rpoB gene) + <i>P. mirabilis</i> (ureC gene)	FAM & VIC	DHUS01653

FetoGnost® Kits for detection of human DNA

Product Name	Channel Human Target	Order Number
FetoGnost® Kit RHD (CE-IVD) <i>NEW</i> Detection of fetal DNA (rhesus factor D Exon 5, 7 and 10) from maternal plasma of non-immunized RhD negative women (non-invasive prenatal determination of fetal RHD status, NIPT-RHD)	FAM, VIC & NED	HUFG100, HUFG500
FetoGnost® Kit Control <i>NEW</i> Detection of one maternal marker and two fetal markers for the detection of cell-free fetal DNA (cffDNA) in maternal plasma	FAM, VIC & NED	HUFG050

General information on ingenetix kits

Kit contents (50 reactions):

- Assay (primer + probe) for detection of pathogen
- Assay (primer + probe) + IPC target for detection (Cy5 channel) of Internal Positive Control (IPC)
- Positive Control
- Reaction Mix
- Water

PCR-platforms:

developed for use with

- Applied Biosystems® 7500 instrument (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

Kits are optimized to run under the same thermal cycling conditions

RNA and DNA material can be analysed in one PCR run

H. pylori ClariRes Assay

Product Name	Channel Pathogen & IPC	Order Number
H. pylori ClariRes Assay (CE-IVD) Detection of the 23S rRNA gene of <i>H. pylori</i> and determination of its clarithromycin resistance. IVD certified.	Cy5	RTGM100

Contents (50 reactions):

- Assay (primer + probe) for detection of pathogen and internal positive control
- Positive Controls
- Internal Positive Control Target
- Water
- PCR-platform: Only LightCycler® 1.2/1.5/2.0 on basis of melting curve analysis
- Attention: Amplification mix is not included.
Recommended amplification mix is LC™-FastStart DNA Master SYBR® Green I



MycoReal assays for detection of fungi

Product Name	Channel Pathogen & IPC	Order Number
MycoReal Aspergillus Detection of the ITS2-region of <i>A. fumigatus</i> , <i>A. flavus</i> , <i>A. nidulans</i> , <i>A. niger</i> and <i>A. terreus</i> PCR-platform: Only LightCycler® 2.0 Recommended amplification mix (not included): LC™-FastStart DNA Master Kit Hybridisation Probes	Aspergillus: 640 nm, 705 nm IPC: 610 nm	RTPM100
MycoReal Candida Detection of the ITS2-region of <i>C. albicans</i> , <i>C. dubliniensis</i> , <i>C. glabrata</i> , <i>C. krusei</i> , <i>C. lusitaniae</i> , <i>C. parapsilosis</i> , and <i>C. tropicalis</i> PCR-platform: Only LightCycler® 2.0 Recommended amplification mix (not included): LC™-FastStart DNA Master Kit Hybridisation Probes	Candida: 640 nm, 670 nm, 705 nm IPC: 610 nm	RTPM200
MycoReal Fungi Detection of the ITS2-region of fungi (panfungal), species identification via sequencing and BLAST analysis PCR-platform: Only LightCycler® 2.0 Recommended amplification mix (not included): LC™-FastStart DNA Master Kit Hybridisation Probes	Fungi: 640 nm IPC: 610 nm	RTPM300
MycoReal Pneumocystis Detection of the mt LSU gene of <i>Pneumocystis jirovecii</i> PCR-platform: LightCycler® 1.2/1.5/2.0/480, ABI PRISM® 7500, Mx3005P® Recommended amplification mix (not included): <ul style="list-style-type: none"> • For LightCycler® 2.0: LC™-FastStart DNA Master Kit Hybridisation Probes • For Applied Biosystems® 7500, Mx3005P®, LightCycler® 480: TaqMan® Gene Expression Master Mix 	Pneumocystis: FAM IPC: 610 nm IPC: VIC / HEX IPC: Cy5	RTPM400 or RTPM401 or RTPM403

General information on MycoReal assays

Content:

- Assay (primer + probe) for detection of pathogen (50 reactions)
- Assay for detection of internal positive control (IPC)
- Positive Control(s)
- Attention: Amplification mix is not included

Recommended amplification mix, depending on PCR-platform

- LC™-FastStart DNA Master Kit Hybridisation Probes for LightCycler® 1.2/1.5/2.0
- TaqMan® Gene Expression Master Mix for Applied Biosystems® 7500, Mx3005P®, LightCycler® 480



Positive control standards

Product Name	Order Number
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

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 Applied Biosystems® 7500, Mx3005P®	VIC / HEX	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 Applied Biosystems® 7500, LightCycler® 480, Mx3005P®	Cy5	RTGMCR-3
Internal Positive Control Assay 1 Detection of internal control DNA target (in extra tube). Recommended for Applied Biosystems® 7500, Mx3005P®	VIC / HEX	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 Applied Biosystems® 7500, LightCycler® 480, Mx3005P®	Cy5	RTGMIPC-3
Internal Positive RNA Control Assay 1 Detection of internal control RNA target (in extra tube). Recommended for Applied Biosystems® 7500, Mx3005P®	VIC / HEX	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 Applied Biosystems® 7500, LightCycler® 480, Mx3005P®	Cy5	RTGMIPCR3