

Lab direct qPCR

Our EU-IVDR certified, multiplex qPCR kits simplify detection of up to four different targets in a single reaction. They are provided as ready-to-use solutions, simply:

1. Perform RNA/DNA extraction
2. Add the eluate(s) and controls to the plated reaction mix (solution A)
3. Run the assay on any qPCR cyclers and obtain your results

Lab *direct* qPCR kits are available in multiple instrument configurations to ensure optimal compatibility with commonly used real-time PCR platforms and fluorescence channel settings.

The kits require either ≤ 3 detection channels or one of the following channel configurations:

- Ax assays are designed for 5-channel qPCR: **Cyan500**, FAM, HEX, CalRed, Cy5
- Bx assays are designed for 5-channel qPCR: FAM, HEX, CalRed, Cy5, **Cy5.5**
- Cx assays are designed for 4-channel qPCR: FAM, HEX, CalRed, Cy5

All multiplex assays can also be provided in singleplex or duplex format upon request.

Please contact: order@frizbiochem.de

Respiratory Infection Assays

Bacterial panels	Targets	Format	Configuration	Ref.No.	Certification Status
res1plex <i>direct</i> PCR	<i>M.pneumoniae</i> , <i>C.pneumoniae</i> , <i>L.pneumophila</i>	96 rxn	-	FBC119	IVDR
res2plex <i>direct</i> PCR	<i>B.parapertussis</i> , <i>B.pertussis</i>	96 rxn	-	FBC120	IVDR
res3plex <i>direct</i> PCR	<i>H.influenzae</i> , <i>S.pneumoniae</i>	96 rxn	-	FBC121	IVDR

Viral panels	Targets	Format	Configuration	Ref.No.	Certification Status
res4plex <i>direct</i> RT-PCR	Influenza A, Influenza B, SARS-CoV-2, Respiratory Syncytial Virus (RSV)	96 rxn	Ax	FBC107-Ax	IVDR
		96 rxn	Bx	FBC107-Bx	IVDR
		96 rxn	Cx	FBC107-Cx	IVDR
res5plex <i>direct</i> RT-PCR	Parainfluenza virus 1/ 2/ 3/ 4, Adenovirus, Enterovirus/Rhinovirus	96 rxn	-	FBC117	IVDR
res6plex <i>direct</i> RT-PCR	Human Coronavirus (229E/ NL63/ OC43/ HKU1), Metapneumovirus, Bocavirus	96 rxn	-	FBC118	IVDR
COVID-19 <i>direct</i> RT-PCR	SARS-CoV-2 (N-gene; E-gene)	96 rxn	-	FBC101-Cx	IVDR
COVID-19 <i>direct</i> RT-PCR Omicron	SARS-CoV-2 (N-gene; E-gene); SARS-CoV-2 (Y505H mutation)	96 rxn	-	FBC106	IVDR

Gastrointestinal Infection Assays

Bacterial / Parasite panels	Targets	Format	Configuration	Ref.No.	Certification Status
GastroBac <i>direct</i> PCR	<i>Campylobacter</i> spp., <i>Salmonella</i> spp., <i>Shigella</i> spp./EIEC, <i>Yersinia enterocolotica</i> / <i>Yersinia pseudotuberculosis</i>	96 rxn	Ax	FBC115-Ax	IVDR
		96 rxn	Bx	FBC115-Bx	IVDR
Helicobacter <i>direct</i> PCR	<i>Helicobacter pylori</i> , A2142G/C, A2143G (Clarithromycin resistance), C261A/G, G271A/T, A272G (Levofloxacin resistance)	96 rxn	Ax	FBC116-Ax	IVDR
		96 rxn	Bx	FBC116-Bx	IVDR
GastroPar <i>direct</i> PCR	<i>Cryptosporidium</i> spp., <i>Entamoeba histolytica</i> , <i>Giardia lamblia</i> , <i>Strongyloides stercoralis</i>	96 rxn	Cx	FBC110	under development

Viral panels	Targets	Format	Configuration	Ref.No.	Certification Status
GastroVir1 <i>direct</i> RT-PCR	Norovirus GI/GII, Rotavirus	96 rxn	-	FBC108	IVDR
GastroVir2 <i>direct</i> RT-PCR	Adenovirus, Astrovirus, Sapovirus	96 rxn	-	FBC109	IVDR

Hospitally Acquired Infection Assays

Bacterial panels	Targets	Format	Configuration	Ref.No.	Certification Status
MRSA <i>direct</i> PCR*	MREJ, mec A, mec C, van A	96 rxn	Ax	FBC131-Ax	IVDR
	MREJ, mec A, mec C, van A	96 rxn	Bx	FBC131-Bx	IVDR
	MREJ, mec A, mec C	96 rxn	Cx	FBC131-Cx	IVDR

* The assay can also be performed directly on the sample without prior isolation or purification.

Upcoming Assays

Bacterial / Viral panels	Targets	Format	Ref.No.	Certification Status
HSV <i>direct</i> PCR	HSV1, HSV2	96 rxn	FBC127	IVDR compliant by Q1/2027
STI Bac1 <i>direct</i> PCR	<i>C. trachomatis</i> , <i>N. gonorrhoeae</i> , <i>M. genitalium</i>	96 rxn	FBC128	
STI Bac2 <i>direct</i> PCR	<i>T. vaginalis</i> , <i>U. urealyticum</i> , <i>U. parvum</i>	96 rxn	FBC129	
STI Bac3 <i>direct</i> PCR	<i>T. pallidum</i> , <i>M.hominis</i> , <i>G.vaginalis</i>	96 rxn	FBC130	
HPV <i>direct</i> PCR	Genotype 16, Genotype 18, Genotyp 31/ 33/ 35/ 39/ 45/ 52/ 56/ 58/ 59/ 68	96 rxn	FBC124	
VRLR <i>direct</i> PCR	Vancomycin-resistant and linezolid-resistant enterococci	96 rxn	FBC125	
Carba-ESBL <i>direct</i> PCR	Carbapenemase- and ESBL-producing gram-negative bacteria	96 rxn	FBC126	
TB y/n+ <i>direct</i> PCR	<i>M.tuberculosis</i> , <i>Rifampicin</i> , <i>Isoniazid</i> and <i>Fluorochinolone-Resistance</i>	96 rxn	FBC123	
Mpox <i>direct</i> PCR	Monkeypox virus	96 rxn	FBC122	