

Report MQ 2020/4 Microbiology: Molecular diagnostics**Summary**

Probe	Teilnehmer	Proben	Resultate	Gut	% Gut
B11	25	25	48	48	100.00
B12	33	33	34	34	100.00
B13	27	27	26	26	100.00
B14	29	31	28	28	100.00
B15	54	56	55	55	100.00
B16	68	70	120	119	99.17
B17	20	20	20	20	100.00
B25	6	6	30	30	100.00
B26	4	4	4	4	100.00
B29	8	8	8	8	100.00
B31	56	62	62	62	100.00
B18	26	29	557	556	99.82
B19	29	30	510	508	99.61
B23	21	22	254	254	100.00
Total		423	1756	1752	99.77

B11 Chlamydia trachomatis/Neisseria gonorrhoeae

Chlamydia trachomatis (CT)	Target Value	negative	positive	% Conform
Genexpert	negative	21	0	100.00
Other methods	negative	3	0	100.00
Total		24	0	100.00

Neisseria gonorrhoeae (NG)	Target Value	negative	positive	% Conform
Genexpert	negative	21	0	100.00
Other methods	negative	3	0	100.00
Total		24	0	100.00

B12 Staphylococcus aureus, MRSA

Staphylococcus aureus (SA)	Target Value	negative	positive	% Conform
Genexpert	negative	2	0	100.00

MRSA	Target Value	negative	positive	% Conform
Genexpert	negative	32	0	100.00

B13 Clostridium difficile

	Target Value	negative	positive	% Conform
Genexpert	negative	25	0	100.00
Other methods	negative	1	0	100.00
Total		26	0	100.00

B14 Streptococcus Gruppe B

	Target Value	negative	positive	% Conform
Genexpert	positive	0	28	100.00

B15 Norovirus

	Target Value	negative	positive	% Conform
Genexpert	negative	55	0	100.00

B16 Influenzavirus/RSV

Influenzavirus	Target Value	negative	positive	% Conform
Genexpert	positive	0	56	100.00
Alere-i	positive	1	7	87.50
Other methods	positive	0	3	100.00
Total		1	66	98.51

RSV	Target Value	negative	positive	% Conform
Genexpert	negative	51	0	100.00
Other methods	negative	2	0	100.00
Total		53	0	100.00

B17 Mycobacterium tuberculosis

	Target Value	negative	positive	% Conform
Genexpert	negative	20	0	100.00

B25 Carba-R

Carba-R (IMP1)	Target Value	negative	positive	% Conform
Genexpert	negative	6	0	100.00

Carba-R (VIM)	Target Value	negative	positive	% Conform
Genexpert	negative	6	0	100.00

Carba-R (NDM)	Target Value	negative	positive	% Conform
Genexpert	negative	6	0	100.00

Carba-R (KPC)	Target Value	negative	positive	% Conform
Genexpert	negative	6	0	100.00

Carba-R (OXA48)	Target Value	negative	positive	% Conform
Genexpert	negative	6	0	100.00

B26 Enterovirus

	Target Value	negative	positive	% Conform
Genexpert	positive	0	4	100.00

B29 VanA/VanB

	Target Value	negative	positive	% Conform
Genexpert	positive	0	8	100.00

B31 SARS-CoV-2

	Target Value	negative	positive	% Conform
Genexpert	negative	43	0	100.00
BD MAX	negative	3	0	100.00
Other methods	negative	8	0	100.00
MDX liaison DiaSorin	negative	8	0	100.00
Total		62	0	100.00

B18 Gastrointestinal Panel NAT

Campylobacter	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	22	100.00
QIAstat-DX	positive	0	3	100.00
BD MAX	positive	0	2	100.00
MDX liaison DiaSorin	positive	0	1	100.00
Total		0	28	100.00

Clostridium difficile	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	21	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		24	0	100.00

Plesiomonas shigelloides	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
BD MAX	negative	1	0	100.00
Total		26	0	100.00

Salmonella	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
BD MAX	negative	2	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		28	0	100.00

Vibrio	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
BD MAX	negative	1	0	100.00
Total		23	0	100.00

Vibrio cholerae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	21	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		24	0	100.00

Yersinia enterocolitica	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
BD MAX	negative	1	1	50.00
Total		26	1	96.30

E. coli (EAEC)	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	21	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		24	0	100.00

E. coli (EPEC)	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	21	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		24	0	100.00

E. coli (ETEC)	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	22	100.00
QIAstat-DX	positive	0	3	100.00
BD MAX	positive	0	1	100.00
Total		0	26	100.00

E. coli (STEC)	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
BD MAX	negative	1	0	100.00
Total		26	0	100.00

E. coli O157	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	16	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		19	0	100.00

E. coli (EIEC) / Shigella	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
BD MAX	negative	2	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		28	0	100.00

Cryptosporidium	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		25	0	100.00

Cyclospora cayetanensis	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	21	100.00
QIAstat-DX	negative	3	0	100.00
Total		3	21	100.00

Entamoeba histolytica	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		25	0	100.00

Giardia lamblia	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		25	0	100.00

Adenovirus F40/41	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		25	0	100.00

Astrovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		25	0	100.00

Norovirus GI/GII	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		25	0	100.00

Rotavirus A	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		25	0	100.00

Sapovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		25	0	100.00

Vibrio parahaemolyticus	Target Value	negative	positive	% Conform
QIAstat-DX	negative	3	0	100.00

Vibrio vulnificus	Target Value	negative	positive	% Conform
QIAstat-DX	negative	3	0	100.00

B19 Respiratory Panel NAT

Adenovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Coronavirus 229E	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Coronavirus HKU1	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	1	96.43
QIAstat-DX	negative	2	0	100.00
Total		29	1	96.67

Coronavirus NL63	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Coronavirus OC43	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Metapneumovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	1	27	96.43
QIAstat-DX	positive	0	2	100.00
Total		1	29	96.67

Rhinovirus/Enterovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Influenza A	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Influenza B	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Parainfluenza Virus 1	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Parainfluenza Virus 2	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Parainfluenza Virus 3	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Parainfluenza Virus 4	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	28	100.00
QIAstat-DX	positive	0	2	100.00
Total		0	30	100.00

Respiratory Syncytial Virus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		30	0	100.00

Bordetella pertussis	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	2	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		31	0	100.00

Chlamydomphila pneumoniae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		28	0	100.00

Mycoplasma pneumoniae	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	28	100.00
QIAstat-DX	positive	0	2	100.00
MDX liaison DiaSorin	positive	0	1	100.00
Total		0	31	100.00

B23 Meningitis Panel NAT

Escherichia coli K1	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	17	0	100.00

Haemophilus influenzae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	17	0	100.00

Listeria monocytogenes	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	17	0	100.00

Neisseria meningitidis	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	17	100.00

Streptococcus agalactiae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	17	0	100.00

Streptococcus pneumoniae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	17	0	100.00

Zytomegalievirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	18	0	100.00

Enterovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	17	100.00

Herpes-simplex-Virus 1	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	18	0	100.00
MDX liaison DiaSorin	negative	3	0	100.00
other methods NAT	negative	2	0	100.00
Total		23	0	100.00

Herpes-simplex-Virus 2	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	18	0	100.00
MDX liaison DiaSorin	negative	3	0	100.00
other methods NAT	negative	2	0	100.00
Total		23	0	100.00

Herpesvirus 6	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	17	100.00

Parechovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	17	0	100.00

Varizella-Zoster-Virus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	18	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
other methods NAT	negative	2	0	100.00
Total		21	0	100.00

Cryptococcus neoformans/gattii	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	16	0	100.00

Do you want to register or do you need additional samples?

<input type="radio"/>	B11	Chlamydia trachomatis und Neisseria gonorrhoeae	4 Samples/year	100.-
<input type="radio"/>	B12	Staphylococcus aureus (SA), MRSA	4 Samples/year	100.-
<input type="radio"/>	B13	Clostridium difficile	4 Samples/year	100.-
<input type="radio"/>	B14	Streptokokken Gruppe B	4 Samples/year	100.-
<input type="radio"/>	B15	Norovirus	4 Samples/year	100.-
<input type="radio"/>	B16	Influenza / RSV	4 Samples/year	100.-
<input type="radio"/>	B17	Mycobacterium tuberculosis	4 Samples/year	100.-
<input type="radio"/>	B18	Gastrointestinal Panel	4 Samples/year	200.-
<input type="radio"/>	B19	Respiratory Panel	4 Samples/year	200.-
<input type="radio"/>	B23	Meningitis Panel	4 Samples/year	200.-
<input type="radio"/>	B25	Carba-R	4 Samples/year	100.-
<input type="radio"/>	B26	Enterovirus	4 Samples/year	100.-
<input type="radio"/>	B29	VanA/VanB	4 Samples/year	100.-
<input type="radio"/>	B31	SARS-CoV-2	4 Samples/year	100.-

The samples usually contain inactivated pathogens and can be measured with all nucleic acid amplification methods. Samples with single pathogens were tested with the Genexpert, the spectrum of the panels corresponds to the tests for Biofire and QIAstat-Dx.

Specimens must be handled and disposed of with the same care as patient specimens.

Participant number / address:

date / signature:

MQ - Verein für med. Qualitätskontrolle
Institut für Klinische Chemie
Universitätsspital Zürich
CH 8091 Zürich
Telefon 044 255 34 11
www.mqzh.ch info@MQZH.ch