

Report MQ 2022/4 Microbiology: Molecular diagnostics

Summary

Sample	Results	Good	% Good
B11 Chlamydia trachomatis/Neisseria gonorrhoe	73	73	100.00
B12 Staphylococcus aureus, MRSA	33	33	100.00
B13 Clostridium difficile	28	28	100.00
B14 Streptococcus Gruppe B	37	37	100.00
B15 Norovirus	62	62	100.00
B16 Influenzavirus/RSV	197	196	99.49
B17 Mycobacterium tuberculosis	21	21	100.00
B25 Carba-R	36	36	100.00
B26 Enterovirus	5	5	100.00
B29 VanA/VanB	10	10	100.00
B31 SARS-CoV-2	115	115	100.00
B36 SARS-CoV2+Flu+RSV	87	87	100.00
B18 Gastrointestinall Panel NAT	711	708	99.58
B19 Respiratory Panel NAT	752	747	99.34
B23 Meningitis Panel NAT	330	330	100.00
Total	2497	2488	99.64

B11 Chlamydia trachomatis/Neisseria gonorrhoeae

Chlamydia trachomatis (CT)	Target Value	negative	positive	% Conform
Genexpert	positive	0	29	100.00
Other methods	positive	0	8	100.00
Total		0	37	100.00

Neisseria gonorrhoeae (NG)	Target Value	negative	positive	% Conform
Genexpert	positive	0	28	100.00
Other methods	positive	0	8	100.00
Total		0	36	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	31	0	100.00

B13 Clostridium difficile

	Target Value	negative	positive	% Conform
Genexpert	positive	0	26	100.00
Other methods	positive	0	2	100.00
Total		0	28	100.00

B14 Streptococcus Gruppe B

	Target Value	negative	positive	% Conform
Genexpert	negative	36	0	100.00
Other methods	negative	1	0	100.00
Total		37	0	100.00

B15 Norovirus

	Target Value	negative	positive	% Conform
Genexpert	positive	0	62	100.00

B16 Influenzavirus/RSV

Influenza A	Target Value	negative	positive	% Conform
Genexpert	positive	0	56	100.00
Abbott ID NOW	positive	0	4	100.00
cobas Liat	positive	0	4	100.00
Other methods	positive	1	5	83.33
Total		1	69	98.57

Influenza B	Target Value	negative	positive	% Conform
Genexpert	negative	55	0	100.00
Abbott ID NOW	negative	4	0	100.00
cobas Liat	negative	4	0	100.00
Other methods	negative	4	0	100.00
Total		67	0	100.00

RSV	Target Value	negative	positive	% Conform
Genexpert	negative	54	0	100.00
cobas Liat	negative	2	0	100.00
Other methods	negative	4	0	100.00
Total		60	0	100.00

B17 Mycobacterium tuberculosis

	Target Value	negative	positive	% Conform
Genexpert	negative	21	0	100.00

B25 Carba-R

Carba R	Target Value	negative	positive	% Conform
Genexpert	positive	0	1	100.00

Carba-R (IMP1)	Target Value	negative	positive	% Conform
Genexpert	negative	7	0	100.00

Carba-R (VIM)	Target Value	negative	positive	% Conform
Genexpert	positive	0	7	100.00

Carba-R (NDM)	Target Value	negative	positive	% Conform
Genexpert	negative	7	0	100.00

Carba-R (KPC)	Target Value	negative	positive	% Conform
Genexpert	negative	7	0	100.00

Carba-R (OXA48)	Target Value	negative	positive	% Conform
Genexpert	negative	7	0	100.00

B26 Enterovirus

	Target Value	negative	positive	% Conform
Genexpert	positive	0	5	100.00

B29 VanA/VanB

	Target Value	negative	positive	% Conform
Genexpert	negative	10	0	100.00

B31 SARS-CoV-2

	Target Value	negative	positive	% Conform
Genexpert	negative	53	0	100.00
BD MAX	negative	7	0	100.00
MDX liaison DiaSorin	negative	15	0	100.00
Ender MASS	negative	1	0	100.00
cobas Liat	negative	12	0	100.00
Other methods	negative	27	0	100.00
Total		115	0	100.00

B36 SARS-CoV2+Flu+RSV

SARS CoV-2	Target Value	negative	positive	% Conform
Genexpert	negative	19	0	100.00
Other methods	negative	10	0	100.00
Total		29	0	100.00

Influenza A	Target Value	negative	positive	% Conform
Genexpert	positive	0	14	100.00
Other methods	positive	0	6	100.00
Total		0	20	100.00

Influenza B	Target Value	negative	positive	% Conform
Genexpert	negative	14	0	100.00
Other methods	negative	6	0	100.00
Total		20	0	100.00

RSV	Target Value	negative	positive	% Conform
Genexpert	negative	13	0	100.00
Other methods	negative	5	0	100.00
Total		18	0	100.00

B18 Gastrointestinal Panel NAT

Campylobacter	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	5	0	100.00
BD MAX	negative	2	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		36	0	100.00

Clostridium difficile	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	27	100.00
QIAstat-DX	positive	0	5	100.00
Total		0	32	100.00

Plesiomonas shigelloides	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	26	1	96.30
QIAstat-DX	negative	5	0	100.00
BD MAX	negative	2	0	100.00
Total		33	1	97.06

Salmonella	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	5	0	100.00
BD MAX	negative	2	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		36	0	100.00

Vibrio	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
BD MAX	negative	2	0	100.00
Total		30	0	100.00

Vibrio cholerae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	25	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		29	0	100.00

Yersinia enterocolitica	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	5	0	100.00
BD MAX	negative	2	0	100.00
Total		35	0	100.00

E. coli (EAEC)	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		31	0	100.00

E. coli (EPEC)	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	26	0	100.00
QIAstat-DX	negative	3	0	100.00
Total		29	0	100.00

E. coli (ETEC)	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	4	0	100.00
BD MAX	negative	2	0	100.00
Total		34	0	100.00

E. coli (STEC)	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	1	96.43
QIAstat-DX	negative	5	0	100.00
BD MAX	negative	2	0	100.00
Total		34	1	97.14

E. coli O157	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	23	0	100.00
QIAstat-DX	negative	2	0	100.00
Total		25	0	100.00

E. coli (EIEC) / Shigella	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	1	27	96.43
QIAstat-DX	positive	0	5	100.00
BD MAX	positive	0	2	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		2	34	97.22

Cryptosporidium	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		32	0	100.00

Cyclospora cayetanensis	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		31	0	100.00

Entamoeba histolytica	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		32	0	100.00

Giardia lamblia	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		31	0	100.00

Adenovirus F40/41	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		31	0	100.00

Astrovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		31	0	100.00

Norovirus GI/GII	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		32	0	100.00

Rotavirus A	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	27	100.00
QIAstat-DX	positive	0	5	100.00
Total		0	32	100.00

Sapovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	27	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		31	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	positive	0	33	100.00
QIAstat-DX	positive	0	5	100.00
Total		0	38	100.00

Bocavirus	Target Value	negative	positive	% Conform
QIAstat-DX	negative	5	0	100.00

Coronavirus 229E	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		38	0	100.00

Coronavirus HKU1	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	32	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		37	0	100.00

Coronavirus NL63	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		38	0	100.00

Coronavirus OC43	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		38	0	100.00

MERS-CoV	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	30	0	100.00

SARS-Cov-2	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	1	31	96.88
QIAstat-DX	positive	0	5	100.00
Total		1	36	97.30

Metapneumovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		38	0	100.00

Rhinovirus/Enterovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		38	0	100.00

Influenza A	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		38	0	100.00

Influenza B	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	33	100.00
QIAstat-DX	positive	1	4	80.00
Total		1	37	97.37

Parainfluenza Virus 1	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	32	1	96.97
QIAstat-DX	negative	5	0	100.00
Total		37	1	97.37

Parainfluenza Virus 2	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	32	1	96.97
QIAstat-DX	negative	5	0	100.00
Total		37	1	97.37

Parainfluenza Virus 3	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	33	100.00
QIAstat-DX	positive	0	5	100.00
Total		0	38	100.00

Parainfluenza Virus 4	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	32	1	96.97
QIAstat-DX	negative	5	0	100.00
Total		37	1	97.37

Respiratory Syncytial Virus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		38	0	100.00

Bordetella parapertussis	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	32	0	100.00

Bordetella pertussis	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	5	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		39	0	100.00

Legionella pneumophilia	Target Value	negative	positive	% Conform
Other methods	negative	1	0	100.00
QIAstat-DX	negative	4	0	100.00
Total		5	0	100.00

Chlamydomphila pneumoniae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		34	0	100.00

Mycoplasma pneumoniae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	5	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
Total		39	0	100.00

B23 Meningitis Panel NAT

Escherichia coli K1	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00

Haemophilus influenzae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00

Listeria monocytogenes	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00

Neisseria meningitidis	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00

Streptococcus agalactiae	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	22	100.00

Streptococcus pneumoniae	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00

Zytomegalievirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	24	0	100.00

Enterovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	23	0	100.00

Herpes-simplex-Virus 1	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	24	0	100.00
MDX liaison DiaSorin	negative	3	0	100.00
other methods NAT	negative	2	0	100.00
Total		29	0	100.00

Herpes-simplex-Virus 2	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	24	100.00
MDX liaison DiaSorin	positive	0	3	100.00
other methods NAT	positive	0	2	100.00
Total		0	29	100.00

Herpesvirus 6	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00

Parechovirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	22	0	100.00

Varizella-Zoster-Virus	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	23	0	100.00
MDX liaison DiaSorin	negative	2	0	100.00
other methods NAT	negative	3	0	100.00
Total		28	0	100.00

Cryptococcus neoformans/gattii	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	20	100.00

Herpes-simplex-Virus 1/2	Target Value	negative	positive	% Conform
all Participants	positive	0	1	100.00