

Report MQ 2023/4 Microbiology: Molecular diagnostics

Summary

Sample	Results	Good	% Good
B11 Chlamydia trachomatis/Neisseria gonorrhoe	96	96	100.00
B12 Staphylococcus aureus, MRSA	34	34	100.00
B13 Clostridium difficile	32	32	100.00
B14 Streptococcus Gruppe B	40	40	100.00
B15 Norovirus	66	66	100.00
B16 Influenzavirus/RSV	198	198	100.00
B17 Mycobacterium tuberculosis	19	19	100.00
B25 Carba-R	45	45	100.00
B26 Enterovirus	5	5	100.00
B29 VanA/VanB	8	8	100.00
B31 SARS-CoV-2	84	81	96.43
B36 SARS-CoV2+Flu+RSV	170	169	99.41
B18 Gastrointestinall Panel NAT	978	976	99.80
B19 Respiratory Panel NAT	848	846	99.76
B23 Meningitis Panel NAT	464	462	99.57
Total	3087	3077	99.68

B11 Chlamydia trachomatis/Neisseria gonorrhoeae

Chlamydia trachomatis (CT)	Target Value	negative	positive	% Conform
Genexpert	negative	32	0	100.00
Other methods	negative	16	0	100.00
Total		48	0	100.00

Neisseria gonorrhoeae (NG)	Target Value	negative	positive	% Conform
Genexpert	positive	0	32	100.00
Other methods	positive	0	16	100.00
Total		0	48	100.00

B12 Staphylococcus aureus, MRSA

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

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

B13 Clostridium difficile

	Target Value	negative	positive	% Conform
Genexpert	negative	29	0	100.00
Other methods	negative	3	0	100.00
Total		32	0	100.00

B14 Streptococcus Gruppe B

	Target Value	negative	positive	% Conform
Genexpert	positive	0	40	100.00

B15 Norovirus

	Target Value	negative	positive	% Conform
Genexpert	positive	0	66	100.00

B16 Influenzavirus/RSV

Influenza A	Target Value	negative	positive	% Conform
Genexpert	positive	0	53	100.00
Abbott ID NOW	positive	0	4	100.00
cobas Liat	positive	0	6	100.00
Other methods	positive	0	5	100.00
Total		0	68	100.00

Influenza B	Target Value	negative	positive	% Conform
Genexpert	negative	54	0	100.00
Abbott ID NOW	negative	4	0	100.00
cobas Liat	negative	6	0	100.00
Other methods	negative	5	0	100.00
Total		69	0	100.00

RSV	Target Value	negative	positive	% Conform
Genexpert	negative	52	0	100.00
cobas Liat	negative	5	0	100.00
Other methods	negative	4	0	100.00
Total		61	0	100.00

B17 Mycobacterium tuberculosis

	Target Value	negative	positive	% Conform
Genexpert	positive	0	19	100.00

B25 Carba-R

Carba-R (IMP1)	Target Value	negative	positive	% Conform
Genexpert	positive	0	9	100.00

Carba-R (VIM)	Target Value	negative	positive	% Conform
Genexpert	negative	9	0	100.00

Carba-R (NDM)	Target Value	negative	positive	% Conform
Genexpert	negative	9	0	100.00

Carba-R (KPC)	Target Value	negative	positive	% Conform
Genexpert	negative	9	0	100.00

Carba-R (OXA48)	Target Value	negative	positive	% Conform
Genexpert	negative	9	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	positive	0	8	100.00

B31 SARS-CoV-2

	Target Value	negative	positive	% Conform
Genexpert	negative	52	2	96.30
BD MAX	negative	4	0	100.00
MDX liaison DiaSorin	negative	9	0	100.00
cobas Liat	negative	5	0	100.00
Other methods	negative	11	1	91.67
Total		81	3	96.43

B36 SARS-CoV2+Flu+RSV

SARS CoV-2	Target Value	negative	positive	% Conform
Genexpert	negative	33	0	100.00
Other methods	negative	14	0	100.00
Total		47	0	100.00

Influenza A	Target Value	negative	positive	% Conform
Genexpert	positive	1	29	96.67
Other methods	positive	0	12	100.00
Total		1	41	97.62

Influenza B	Target Value	negative	positive	% Conform
Genexpert	negative	29	0	100.00
Other methods	negative	13	0	100.00
Total		42	0	100.00

RSV	Target Value	negative	positive	% Conform
Genexpert	negative	29	0	100.00
Other methods	negative	10	0	100.00
Total		39	0	100.00

B18 Gastrointestinal Panel NAT

Campylobacter	Target Value	negative	positive	% Conform
Seegene	negative	8	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	8	0	100.00
BD MAX	negative	3	0	100.00
Total		50	0	100.00

Clostridium difficile	Target Value	negative	positive	% Conform
Seegene	negative	7	0	100.00
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	8	0	100.00
Total		45	0	100.00

Plesiomonas shigelloides	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	7	0	100.00
BD MAX	negative	2	0	100.00
Total		39	0	100.00

Salmonella	Target Value	negative	positive	% Conform
Seegene	negative	8	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	8	0	100.00
BD MAX	negative	3	0	100.00
Total		50	0	100.00

Vibrio	Target Value	negative	positive	% Conform
Seegene	positive	0	7	100.00
Biofire/Filmarray	positive	0	30	100.00
BD MAX	positive	0	2	100.00
Total		0	39	100.00

Vibrio cholerae	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	29	100.00
QIAstat-DX	positive	1	6	85.71
Total		1	35	97.22

Yersinia enterocolitica	Target Value	negative	positive	% Conform
Seegene	negative	7	0	100.00
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	8	0	100.00
BD MAX	negative	2	0	100.00
Total		47	0	100.00

E. coli (EAEC)	Target Value	negative	positive	% Conform
Seegene	positive	0	5	100.00
Biofire/Filmarray	positive	0	30	100.00
QIAstat-DX	positive	0	7	100.00
Total		0	42	100.00

E. coli (EPEC)	Target Value	negative	positive	% Conform
Seegene	negative	7	0	100.00
Biofire/Filmarray	negative	29	0	100.00
QIAstat-DX	negative	6	0	100.00
Total		42	0	100.00

E. coli (ETEC)	Target Value	negative	positive	% Conform
Seegene	negative	7	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	7	0	100.00
BD MAX	negative	2	0	100.00
Total		47	0	100.00

E. coli (STEC)	Target Value	negative	positive	% Conform
Seegene	negative	7	0	100.00
Biofire/Filmarray	negative	32	0	100.00
QIAstat-DX	negative	8	0	100.00
BD MAX	negative	3	0	100.00
Total		50	0	100.00

E. coli O157	Target Value	negative	positive	% Conform
Seegene	negative	7	0	100.00
Biofire/Filmarray	negative	26	0	100.00
QIAstat-DX	negative	5	0	100.00
Total		38	0	100.00

E. coli (EIEC) / Shigella	Target Value	negative	positive	% Conform
Seegene	negative	8	0	100.00
Biofire/Filmarray	negative	32	0	100.00
QIAstat-DX	negative	8	0	100.00
BD MAX	negative	3	0	100.00
Total		51	0	100.00

Cryptosporidium	Target Value	negative	positive	% Conform
Seegene	negative	7	0	100.00
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	7	0	100.00
Total		44	0	100.00

Cyclospora cayetanensis	Target Value	negative	positive	% Conform
Seegene	negative	7	0	100.00
Biofire/Filmarray	negative	29	0	100.00
QIAstat-DX	negative	7	0	100.00
Total		43	0	100.00

Entamoeba histolytica	Target Value	negative	positive	% Conform
Seegene	negative	7	0	100.00
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	7	0	100.00
Total		44	0	100.00

Giardia lamblia	Target Value	negative	positive	% Conform
Seegene	positive	0	7	100.00
Biofire/Filmarray	positive	0	30	100.00
QIAstat-DX	positive	0	7	100.00
Total		0	44	100.00

Adenovirus F40/41	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	7	0	100.00
Total		39	0	100.00

Astrovirus	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	7	0	100.00
Total		39	0	100.00

Norovirus GI/GII	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	8	0	100.00
Total		39	0	100.00

Rotavirus A	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	8	0	100.00
Total		41	0	100.00

Aeromonas	Target Value	negative	positive	% Conform
Seegene	negative	5	0	100.00

Sapovirus	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	7	0	100.00
Total		39	0	100.00

Blastocystis hominis	Target Value	negative	positive	% Conform
Seegene	negative	5	0	100.00

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

Dientamoeba fragilis	Target Value	negative	positive	% Conform
Seegene	negative	5	0	100.00

Vibrio vulnificus	Target Value	negative	positive	% Conform
QI Astat-DX	negative	5	1	83.33

Norovirus GI	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00

Norovirus GII	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00

B19 Respiratory Panel NAT

Adenovirus	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		44	0	100.00

Bocavirus	Target Value	negative	positive	% Conform
Seegene	negative	1	0	100.00
QIAstat-DX	negative	7	0	100.00
Total		8	0	100.00

Coronavirus 229E	Target Value	negative	positive	% Conform
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		41	0	100.00

Coronavirus HKU1	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	31	100.00
QIAstat-DX	positive	0	10	100.00
Total		0	41	100.00

Coronavirus NL63	Target Value	negative	positive	% Conform
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	31	1	96.88
QIAstat-DX	negative	9	0	100.00
Total		41	1	97.62

Coronavirus OC43	Target Value	negative	positive	% Conform
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		41	0	100.00

MERS-CoV	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00

SARS-Cov-2	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
Seegene	negative	1	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		41	0	100.00

Metapneumovirus	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		44	0	100.00

Rhinovirus/Enterovirus	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		44	0	100.00

Influenza A	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		44	0	100.00

Influenza B	Target Value	negative	positive	% Conform
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		44	0	100.00

Parainfluenza Virus 1	Target Value	negative	positive	% Conform
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		41	0	100.00

Parainfluenza Virus 2	Target Value	negative	positive	% Conform
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		41	0	100.00

Parainfluenza Virus 3	Target Value	negative	positive	% Conform
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		41	0	100.00

Parainfluenza Virus 4	Target Value	negative	positive	% Conform
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		41	0	100.00

Respiratory Syncytial Virus	Target Value	negative	positive	% Conform
Seegene	positive	0	2	100.00
Biofire/Filmarray	positive	0	33	100.00
QIAstat-DX	positive	0	9	100.00
Total		0	44	100.00

Bordetella parapertussis	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00

Bordetella pertussis	Target Value	negative	positive	% Conform
Seegene	positive	0	1	100.00
Biofire/Filmarray	positive	1	31	96.88
QIAstat-DX	positive	0	9	100.00
MDX liaison DiaSorin	positive	0	1	100.00
Total		1	42	97.67

Legionella pneumophila	Target Value	negative	positive	% Conform
Seegene	negative	1	0	100.00
QIAstat-DX	negative	7	0	100.00
Total		8	0	100.00

Chlamydophila pneumoniae	Target Value	negative	positive	% Conform
Seegene	negative	3	0	100.00
Biofire/Filmarray	negative	34	0	100.00
Total		37	0	100.00

Mycoplasma pneumoniae	Target Value	negative	positive	% Conform
Seegene	negative	3	0	100.00
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	9	0	100.00
Total		45	0	100.00

Parainfluenza	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	3	0	100.00

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

Coronavirus	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	1	100.00

B23 Meningitis Panel NAT

Escherichia coli K1	Target Value	negative	positive	% Conform
QIAstat-DX	positive	0	4	100.00
Seegene	positive	0	1	100.00
Biofire/Filmarray	positive	0	26	100.00
Total		0	31	100.00

Haemophilus influenzae	Target Value	negative	positive	% Conform
QIAstat-DX	negative	4	0	100.00
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	26	0	100.00
Total		31	0	100.00

Listeria monocytogenes	Target Value	negative	positive	% Conform
QIAstat-DX	negative	4	0	100.00
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	26	0	100.00
Total		31	0	100.00

Neisseria meningitidis	Target Value	negative	positive	% Conform
QIAstat-DX	positive	0	4	100.00
Seegene	positive	0	1	100.00
Biofire/Filmarray	positive	1	25	96.15
Total		1	30	96.77

Streptococcus agalactiae	Target Value	negative	positive	% Conform
QIAstat-DX	positive	0	4	100.00
Seegene	positive	0	1	100.00
Biofire/Filmarray	positive	1	25	96.15
Total		1	30	96.77

Streptococcus pneumoniae	Target Value	negative	positive	% Conform
QIAstat-DX	negative	4	0	100.00
Seegene	negative	1	0	100.00
Biofire/Filmarray	negative	26	0	100.00
Total		31	0	100.00

Zytomegalievirus	Target Value	negative	positive	% Conform
Seegene	negative	4	0	100.00
Biofire/Filmarray	negative	26	0	100.00
Total		30	0	100.00

Enterovirus	Target Value	negative	positive	% Conform
QIAstat-DX	negative	5	0	100.00
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	26	0	100.00
Total		33	0	100.00

Herpes-simplex-Virus 1	Target Value	negative	positive	% Conform
QIAstat-DX	positive	0	5	100.00
Seegene	positive	0	3	100.00
Biofire/Filmarray	positive	0	27	100.00
MDX liaison DiaSorin	positive	0	5	100.00
other methods NAT	positive	0	1	100.00
Total		0	41	100.00

Herpes-simplex-Virus 2	Target Value	negative	positive	% Conform
QIAstat-DX	negative	5	0	100.00
Seegene	negative	3	0	100.00
Biofire/Filmarray	negative	27	0	100.00
MDX liaison DiaSorin	negative	5	0	100.00
other methods NAT	negative	1	0	100.00
Total		41	0	100.00

Herpesvirus 6	Target Value	negative	positive	% Conform
QIAstat-DX	negative	5	0	100.00
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	25	0	100.00
Total		32	0	100.00

Parechovirus	Target Value	negative	positive	% Conform
QIAstat-DX	negative	4	0	100.00
Seegene	negative	2	0	100.00
Biofire/Filmarray	negative	25	0	100.00
Total		31	0	100.00

Varizella-Zoster-Virus	Target Value	negative	positive	% Conform
QIAstat-DX	negative	5	0	100.00
Seegene	negative	3	0	100.00
Biofire/Filmarray	negative	26	0	100.00
MDX liaison DiaSorin	negative	3	0	100.00
other methods NAT	negative	2	0	100.00
Total		39	0	100.00

Cryptococcus neoformans/gattii	Target Value	negative	positive	% Conform
QIAstat-DX	negative	3	0	100.00
Biofire/Filmarray	negative	25	0	100.00
Total		28	0	100.00

Streptococcus pyogenes	Target Value	negative	positive	% Conform
QIAstat-DX	negative	2	0	100.00

Mycoplasma pneumoniae	Target Value	negative	positive	% Conform
QIAstat-DX	negative	1	0	100.00