

## Report MQ 2023/1 Microbiology: Molecular diagnostics

### Summary

Sample	Results	Good	% Good
B11 Chlamydia trachomatis/Neisseria gonorrhoe	86	86	100.00
B12 Staphylococcus aureus, MRSA	35	35	100.00
B13 Clostridium difficile	32	32	100.00
B14 Streptococcus Gruppe B	42	42	100.00
B15 Norovirus	66	66	100.00
B16 Influenzavirus/RSV	207	206	99.52
B17 Mycobacterium tuberculosis	20	20	100.00
B25 Carba-R	41	41	100.00
B26 Enterovirus	5	5	100.00
B29 VanA/VanB	12	12	100.00
B31 SARS-CoV-2	107	106	99.07
B36 SARS-CoV2+Flu+RSV	141	141	100.00
B18 Gastrointestinall Panel NAT	798	793	99.37
B19 Respiratory Panel NAT	821	817	99.51
B23 Meningitis Panel NAT	378	376	99.47
<b>Total</b>	<b>2791</b>	<b>2778</b>	<b>99.53</b>

**B11 Chlamydia trachomatis/Neisseria gonorrhoeae**

<b>Chlamydia trachomatis (CT)</b>	Target Value	negative	positive	% Conform
Genexpert	negative	30	0	100.00
Other methods	negative	13	0	100.00
<b>Total</b>		<b>43</b>	<b>0</b>	<b>100.00</b>

<b>Neisseria gonorrhoeae (NG)</b>	Target Value	negative	positive	% Conform
Genexpert	positive	0	30	100.00
Other methods	positive	0	13	100.00
<b>Total</b>		<b>0</b>	<b>43</b>	<b>100.00</b>

**B12 Staphylococcus aureus, MRSA**

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<b>Staphylococcus aureus (SA)</b>	Target Value	negative	positive	% Conform
Genexpert	positive	0	3	100.00

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<b>MRSA</b>	Target Value	negative	positive	% Conform
Genexpert	negative	32	0	100.00

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**B13 Clostridium difficile**

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	Target Value	negative	positive	% Conform
Genexpert	negative	29	0	100.00
Other methods	negative	3	0	100.00
<b>Total</b>		<b>32</b>	<b>0</b>	<b>100.00</b>

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**B14 Streptococcus Gruppe B**

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	Target Value	negative	positive	% Conform
Genexpert	positive	0	41	100.00
Other methods	positive	0	1	100.00
<b>Total</b>		<b>0</b>	<b>42</b>	<b>100.00</b>

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**B15 Norovirus**

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	Target Value	negative	positive	% Conform
Genexpert	positive	0	66	100.00

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**B16 Influenzavirus/RSV**

<b>Influenza A</b>	Target Value	negative	positive	% Conform
Genexpert	negative	56	0	100.00
Abbott ID NOW	negative	4	0	100.00
cobas Liat	negative	7	0	100.00
Other methods	negative	7	0	100.00
<b>Total</b>		<b>74</b>	<b>0</b>	<b>100.00</b>

<b>Influenza B</b>	Target Value	negative	positive	% Conform
Genexpert	positive	0	55	100.00
Abbott ID NOW	positive	0	4	100.00
cobas Liat	positive	0	7	100.00
Other methods	positive	1	5	83.33
<b>Total</b>		<b>1</b>	<b>71</b>	<b>98.61</b>

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

**B17 Mycobacterium tuberculosis**

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	Target Value	negative	positive	% Conform
Genexpert	positive	0	20	100.00

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**B25 Carba-R**

<b>Carba R</b>	Target Value	negative	positive	% Conform
Genexpert	positive	0	1	100.00

<b>Carba-R (IMP1)</b>	Target Value	negative	positive	% Conform
Genexpert	negative	8	0	100.00

<b>Carba-R (VIM)</b>	Target Value	negative	positive	% Conform
Genexpert	negative	8	0	100.00

<b>Carba-R (NDM)</b>	Target Value	negative	positive	% Conform
Genexpert	positive	0	8	100.00

<b>Carba-R (KPC)</b>	Target Value	negative	positive	% Conform
Genexpert	negative	8	0	100.00

<b>Carba-R (OXA48)</b>	Target Value	negative	positive	% Conform
Genexpert	negative	8	0	100.00

**B26 Enterovirus**

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	Target Value	negative	positive	% Conform
Genexpert	negative	5	0	100.00

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**B29 VanA/VanB**

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	Target Value	negative	positive	% Conform
Genexpert	negative	12	0	100.00

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**B31 SARS-CoV-2**

	Target Value	negative	positive	% Conform
Genexpert	positive	0	55	100.00
BD MAX	positive	0	8	100.00
MDX liaison DiaSorin	positive	0	15	100.00
cobas Liat	positive	0	13	100.00
Other methods	positive	1	15	93.75
<b>Total</b>		<b>1</b>	<b>106</b>	<b>99.07</b>

**Commentary B31**

*The sample came from an employee who has no allergies. All tests should be negative.*

**B36 SARS-CoV2+Flu+RSV**

<b>SARS CoV-2</b>	Target Value	negative	positive	% Conform
Genexpert	positive	0	28	100.00
Other methods	positive	0	13	100.00
<b>Total</b>		<b>0</b>	<b>41</b>	<b>100.00</b>

<b>Influenza A</b>	Target Value	negative	positive	% Conform
Genexpert	negative	24	0	100.00
Other methods	negative	9	0	100.00
<b>Total</b>		<b>33</b>	<b>0</b>	<b>100.00</b>

<b>Influenza B</b>	Target Value	negative	positive	% Conform
Genexpert	positive	0	25	100.00
Other methods	positive	0	10	100.00
<b>Total</b>		<b>0</b>	<b>35</b>	<b>100.00</b>

<b>RSV</b>	Target Value	negative	positive	% Conform
Genexpert	negative	24	0	100.00
Other methods	negative	8	0	100.00
<b>Total</b>		<b>32</b>	<b>0</b>	<b>100.00</b>

**B18 Gastrointestinal Panel NAT**

<b>Campylobacter</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	6	0	100.00
BD MAX	negative	3	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
<b>Total</b>		<b>41</b>	<b>0</b>	<b>100.00</b>

<b>Clostridium difficile</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	6	0	100.00
<b>Total</b>		<b>36</b>	<b>0</b>	<b>100.00</b>

<b>Plesiomonas shigelloides</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	29	0	100.00
QIAstat-DX	negative	5	0	100.00
BD MAX	negative	2	0	100.00
<b>Total</b>		<b>36</b>	<b>0</b>	<b>100.00</b>

<b>Salmonella</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	6	0	100.00
BD MAX	negative	3	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
<b>Total</b>		<b>41</b>	<b>0</b>	<b>100.00</b>

<b>Vibrio</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	30	0	100.00
BD MAX	negative	2	0	100.00
<b>Total</b>		<b>32</b>	<b>0</b>	<b>100.00</b>

<b>Vibrio cholerae</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
QIAstat-DX	negative	5	0	100.00
<b>Total</b>		<b>33</b>	<b>0</b>	<b>100.00</b>

<b>Yersinia enterocolitica</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	6	0	100.00
BD MAX	negative	2	0	100.00
<b>Total</b>		<b>39</b>	<b>0</b>	<b>100.00</b>

<b>E. coli (EAEC)</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	5	0	100.00
<b>Total</b>		<b>35</b>	<b>0</b>	<b>100.00</b>

<b>E. coli (EPEC)</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	29	0	100.00
QIAstat-DX	negative	4	0	100.00
<b>Total</b>		<b>33</b>	<b>0</b>	<b>100.00</b>

<b>E. coli (ETEC)</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	5	0	100.00
BD MAX	negative	2	0	100.00
<b>Total</b>		<b>38</b>	<b>0</b>	<b>100.00</b>

<b>E. coli (STEC)</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	6	0	100.00
BD MAX	negative	3	0	100.00
<b>Total</b>		<b>40</b>	<b>0</b>	<b>100.00</b>

<b>E. coli O157</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	25	0	100.00
QIAstat-DX	negative	3	0	100.00
<b>Total</b>		<b>28</b>	<b>0</b>	<b>100.00</b>

<b>E. coli (EIEC) / Shigella</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	6	0	100.00
BD MAX	negative	3	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
<b>Total</b>		<b>40</b>	<b>0</b>	<b>100.00</b>

<b>Cryptosporidium</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	5	0	100.00
<b>Total</b>		<b>36</b>	<b>0</b>	<b>100.00</b>

<b>Cyclospora cayetanensis</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	5	0	100.00
<b>Total</b>		<b>36</b>	<b>0</b>	<b>100.00</b>

<b>Entamoeba histolytica</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	31	0	100.00
QIAstat-DX	negative	5	0	100.00
<b>Total</b>		<b>36</b>	<b>0</b>	<b>100.00</b>

<b>Giardia lamblia</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	30	0	100.00
QIAstat-DX	negative	5	0	100.00
<b>Total</b>		<b>35</b>	<b>0</b>	<b>100.00</b>

<b>Adenovirus F40/41</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	1	29	96.67
QIAstat-DX	positive	0	5	100.00
<b>Total</b>		<b>1</b>	<b>34</b>	<b>97.14</b>

<b>Astrovirus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	2	28	93.33
QIAstat-DX	positive	2	3	60.00
<b>Total</b>		<b>4</b>	<b>31</b>	<b>88.57</b>



<b>Norovirus GI/GII</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	30	100.00
QIAstat-DX	positive	0	6	100.00
<b>Total</b>		<b>0</b>	<b>36</b>	<b>100.00</b>

<b>Rotavirus A</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	29	0	100.00
QIAstat-DX	negative	6	0	100.00
<b>Total</b>		<b>35</b>	<b>0</b>	<b>100.00</b>

<b>Sapovirus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	29	0	100.00
QIAstat-DX	negative	5	0	100.00
<b>Total</b>		<b>34</b>	<b>0</b>	<b>100.00</b>

<b>Vibrio parahaemolyticus</b>	Target Value	negative	positive	% Conform
QIAstat-DX	negative	4	0	100.00

<b>Vibrio vulnificus</b>	Target Value	negative	positive	% Conform
QIAstat-DX	negative	4	0	100.00

**B19 Respiratory Panel NAT**

<b>Adenovirus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	35	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>42</b>	<b>0</b>	<b>100.00</b>

<b>Bocavirus</b>	Target Value	negative	positive	% Conform
QIAstat-DX	negative	7	0	100.00

<b>Coronavirus 229E</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	34	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>41</b>	<b>0</b>	<b>100.00</b>

<b>Coronavirus HKU1</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>40</b>	<b>0</b>	<b>100.00</b>

<b>Coronavirus NL63</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	34	100.00
QIAstat-DX	positive	0	7	100.00
<b>Total</b>		<b>0</b>	<b>41</b>	<b>100.00</b>

<b>Coronavirus OC43</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	34	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>41</b>	<b>0</b>	<b>100.00</b>

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

<b>SARS-Cov-2</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	33	1	97.06
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>40</b>	<b>1</b>	<b>97.56</b>

<b>Metapneumovirus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	35	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>42</b>	<b>0</b>	<b>100.00</b>

<b>Rhinovirus/Enterovirus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	35	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>42</b>	<b>0</b>	<b>100.00</b>

<b>Influenza A</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	1	34	97.14
QIAstat-DX	positive	0	7	100.00
<b>Total</b>		<b>1</b>	<b>41</b>	<b>97.62</b>

<b>Influenza B</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	34	1	97.14
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>41</b>	<b>1</b>	<b>97.62</b>

<b>Parainfluenza Virus 1</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	34	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>41</b>	<b>0</b>	<b>100.00</b>

<b>Parainfluenza Virus 2</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	34	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>41</b>	<b>0</b>	<b>100.00</b>

<b>Parainfluenza Virus 3</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	34	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>41</b>	<b>0</b>	<b>100.00</b>

<b>Parainfluenza Virus 4</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	34	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>41</b>	<b>0</b>	<b>100.00</b>

<b>Respiratory Syncytial Virus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	35	0	100.00
QIAstat-DX	negative	7	0	100.00
<b>Total</b>		<b>42</b>	<b>0</b>	<b>100.00</b>

<b>Bordetella parapertussis</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	1	34	97.14

<b>Bordetella pertussis</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	34	0	100.00
QIAstat-DX	negative	6	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
<b>Total</b>		<b>41</b>	<b>0</b>	<b>100.00</b>

<b>Legionella pneumophilia</b>	Target Value	negative	positive	% Conform
Other methods	negative	1	0	100.00
QIAstat-DX	negative	6	0	100.00
<b>Total</b>		<b>7</b>	<b>0</b>	<b>100.00</b>

<b>Chlamydomphila pneumoniae</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	36	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
<b>Total</b>		<b>37</b>	<b>0</b>	<b>100.00</b>

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<b>Mycoplasma pneumoniae</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	35	0	100.00
QIAstat-DX	negative	7	0	100.00
MDX liaison DiaSorin	negative	1	0	100.00
<b>Total</b>		<b>43</b>	<b>0</b>	<b>100.00</b>

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**B23 Meningitis Panel NAT**

<b>Escherichia coli K1</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	25	0	100.00

<b>Haemophilus influenzae</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	25	0	100.00

<b>Listeria monocytogenes</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	2	24	92.31

<b>Neisseria meningitidis</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	26	0	100.00

<b>Streptococcus agalactiae</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	26	0	100.00

<b>Streptococcus pneumoniae</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	26	0	100.00

<b>Zytomegalievirus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	25	100.00

<b>Enterovirus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	26	0	100.00

<b>Herpes-simplex-Virus 1</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	29	0	100.00
MDX liaison DiaSorin	negative	3	0	100.00
other methods NAT	negative	2	0	100.00
<b>Total</b>		<b>34</b>	<b>0</b>	<b>100.00</b>

<b>Herpes-simplex-Virus 2</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	29	0	100.00
MDX liaison DiaSorin	negative	3	0	100.00
other methods NAT	negative	2	0	100.00
<b>Total</b>		<b>34</b>	<b>0</b>	<b>100.00</b>

<b>Herpesvirus 6</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	positive	0	25	100.00

<b>Parechovirus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	24	0	100.00

<b>Varizella-Zoster-Virus</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	28	0	100.00
MDX liaison DiaSorin	negative	2	0	100.00
other methods NAT	negative	3	0	100.00
<b>Total</b>		<b>33</b>	<b>0</b>	<b>100.00</b>

<b>Cryptococcus neoformans/gattii</b>	Target Value	negative	positive	% Conform
Biofire/Filmarray	negative	23	0	100.00