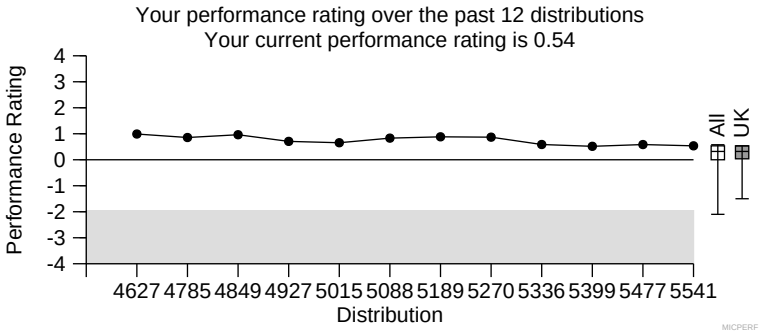
Intended Result		Your Report	Your Score
Specimen 8334	Influenza virus B	Influenza virus B	2
Specimen 8335	Influenza virus A H1	Influenza virus A H1	2
Specimen 8336	RSV B	RSV B	2
Specimen 8337	Parainfluenza 1	Parainfluenza 1	2

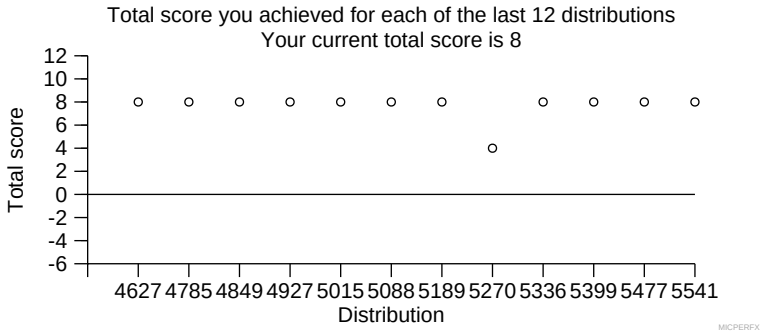
Cumulative score information
Total number of specimens sent to you for **UKNEQAS Molecular detection of respiratory viruses** over the last 3 distributions is 12
For these distributions specimen numbers 7888 7889 7890 7891 8130 8131 8132 8133 8334 8335 8336 8337 have been analysed and scored.

Number of reports analysed 3
Number of specimens reported as not examined (not scored) 0
Number of specimens received too late for analysis (not scored) 0
Number of specimens for which no report was received (not scored) 0
Your cumulative score for these specimens was 24 out of a possible total of 24

The mean score calculated from the reports returned by **UK** laboratories was 22.81 (with a standard error of 2.23)

Performance rating
Your performance rating for **UKNEQAS Molecular detection of respiratory viruses** (i.e. the number of standard errors by which your cumulative score lies above or below the mean) for **UK** laboratories is 0.54.
A performance rating of more than 1.96 standard errors below the mean indicates possible poor performance.
Please note your performance rating may alter if other participants' results are amended.
No score penalty is incurred for non return of reports. However non return of results may be used as a measure of poor performance.





Comments:
A total of 234 sets of specimen were distributed for testing with 219 participants returning results within the specified period. Overall performance was very good with 98.1% of participants reporting the intended results for specimens 8334 and 8335, 96.7% for specimen 8336 and 92.8% for specimen 8337.

Please refer to the Comments page 11 for further information on specimen 8337 (4th specimen).
For the fourth specimen you will exclusively need to report on the presence or absence of adenoviruses, rhinoviruses, bocavirus, enteroviruses, metapneumovirus, parechoviruses, coronaviruses and parainfluenza viruses. Please indicate in the comment box on the final page of the web reply form if you do not test for any listed viruses. Failure to do so may result in your laboratory receiving a score less than 2 for the specimen.

In the histograms on page 2 and subsequent pages a maximum of 12 amplification platform and detection method (PCR amplification kit) results are displayed. These include the most commonly used methods and the method(s) used in your laboratory indicated by an arrow(s). The figures in the histograms and those in the overall results tables may differ due to (1) exclusion of kits displayed in the histograms resulting in apparently lower numbers of data sets in the histograms or (2) participants using more than one kit resulting in higher numbers of data sets in the histograms.

Turn around time: The time taken to report your results was 2-days. This information is provided for your own use and does not form part of your performance assessment.

Enquiries: Pre-distribution test results are available should you experience a technical failure and wish to discuss the results. Written enquiries about this distribution should be addressed to Dr Sanjiv Rughooputh at organiser@ukneqasmicro.org.uk. For repeat specimens in case of an EQA failure investigation, please request using the web form at **https://ukneqasmicro.org.uk/participant-info/order-repeat-specimens.**

Acknowledgements: We would like to thank the Respiratory Virus Unit (UKHSA), Royal Brompton and Harefield NHS Foundation Trust and WHO Collaborating Centre for Reference and Research on Influenza for their assistance with the molecular identification testing and provision of clinical isolates, and UKHSA Manchester for their kind assistance with pre-distribution testing.

Report authorised by: Dr Sanjiv Rughooputh, Scheme Organiser.

Operated by UK Health Security Agency
61 Colindale Avenue
Colindale
London NW9 5EQ

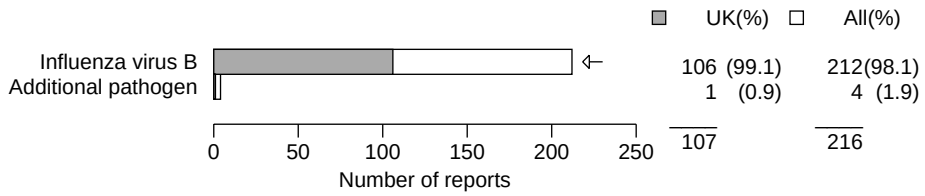
UK NEQAS for Microbiology
PO Box 63003
London NW9 1GH

Published at 10:45 on Wednesday 27 March 2024

Four freeze-dried simulated nasopharyngeal aspirate samples were dispatched with a request to test each for respiratory viruses using molecular methods. Specimen 8334 contained Influenza B and HEp-2 cells and was prepared from a clinical isolate. Specimen 8335 contained Influenza A (H1) and HEp-2 cells and was prepared from a clinical isolate. Specimen 8336 contained RSV B and HEp-2 cells and was prepared from infected cells. Specimen 8337 contained Parainfluenza type 1 and HEp-2 cells and was prepared from infected cells.

Specimen : 8334

Intended result: Influenza B positive
Clinical details: Nasopharyngeal aspirate from a 15-year-old female with sore throat, cough and fever for the last 3 days

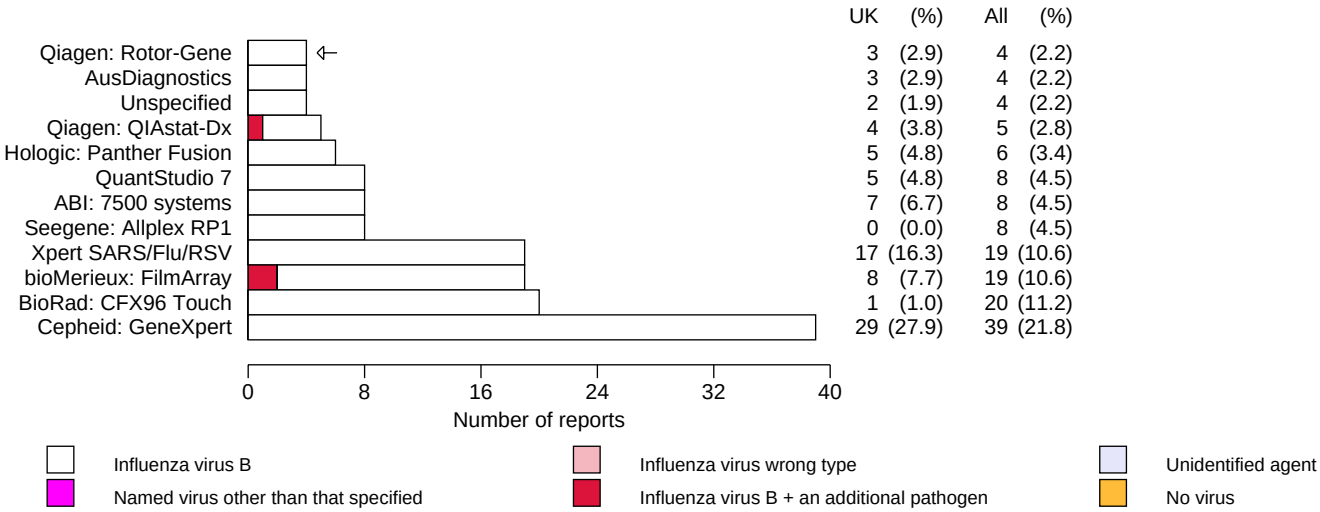


Additional pathogens identified:
Rhinovirus/enterovirus (n=1)
Human coronavirus SARS-CoV-2 (n=2)
Parainfluenza virus (n=1)

Specimen : 8334

Intended result: Influenza B positive
Clinical details: Nasopharyngeal aspirate from a 15-year-old female with sore throat, cough and fever for the last 3 days

Amplification platform



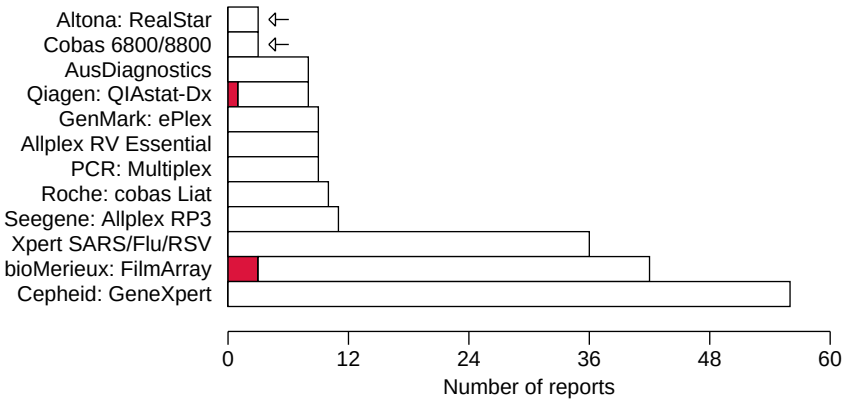
Published at 10:45 on Wednesday 27 March 2024

Four freeze-dried simulated nasopharyngeal aspirate samples were dispatched with a request to test each for respiratory viruses using molecular methods. Specimen 8334 contained Influenza B and HEp-2 cells and was prepared from a clinical isolate. Specimen 8335 contained Influenza A (H1) and HEp-2 cells and was prepared from a clinical isolate. Specimen 8336 contained RSV B and HEp-2 cells and was prepared from infected cells. Specimen 8337 contained Parainfluenza type 1 and HEp-2 cells and was prepared from infected cells.

Specimen : 8334

Intended result: Influenza B positive
Clinical details: Nasopharyngeal aspirate from a 15-year-old female with sore throat, cough and fever for the last 3 days

Virus detection method (PCR amplification kit)



	UK	(%)	All	(%)
Altona: RealStar	1	(0.6)	3	(1.0)
Cobas 6800/8800	2	(1.2)	3	(1.0)
AusDiagnostics	6	(3.6)	8	(2.8)
Qiagen: QIAstat-Dx	6	(3.6)	8	(2.8)
GenMark: ePlex	7	(4.1)	9	(3.1)
Allplex RV Essential	0	(0.0)	9	(3.1)
PCR: Multiplex	5	(3.0)	9	(3.1)
Roche: cobas Liat	8	(4.7)	10	(3.5)
Seegene: Allplex RP3	0	(0.0)	11	(3.8)
Xpert SARS/Flu/RSV	30	(17.8)	36	(12.5)
bioMerieux: FilmArray	21	(12.4)	42	(14.6)
Cepheid: GeneXpert	40	(23.7)	56	(19.5)

Your Report : Influenza virus B
Your Score : **2**

Overall Results	UK	All	Score
Influenza virus B	106	212	2
Influenza virus wrong type	0	0	-1
Unidentified agent	0	0	0
Named virus	0	0	-1
Additional pathogen	1	4	-1
No virus	0	0	0
Total	107	216	
% Correct	99.1	98.1	

Influenza virus B
Influenza virus wrong type
Unidentified agent
Named virus other than that specified
Influenza virus B + an additional pathogen
No virus

Operated by UK Health Security Agency
61 Colindale Avenue
Colindale
London NW9 5EQ

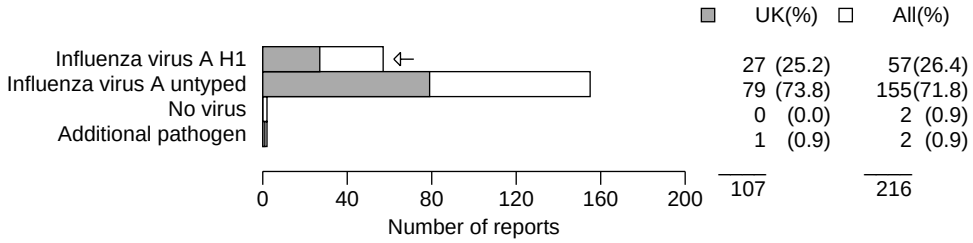
UK NEQAS for Microbiology
PO Box 63003
London NW9 1GH

Published at 10:45 on Wednesday 27 March 2024

Four freeze-dried simulated nasopharyngeal aspirate samples were dispatched with a request to test each for respiratory viruses using molecular methods. Specimen 8334 contained Influenza B and HEp-2 cells and was prepared from a clinical isolate. Specimen 8335 contained Influenza A (H1) and HEp-2 cells and was prepared from a clinical isolate. Specimen 8336 contained RSV B and HEp-2 cells and was prepared from infected cells. Specimen 8337 contained Parainfluenza type 1 and HEp-2 cells and was prepared from infected cells.

Specimen : 8335

Intended result: Influenza A positive (H1N1)
Clinical details: Nasopharyngeal aspirate from a 30-year-old asthmatic male with headache, breathing difficulty and body aches for the last 6 days

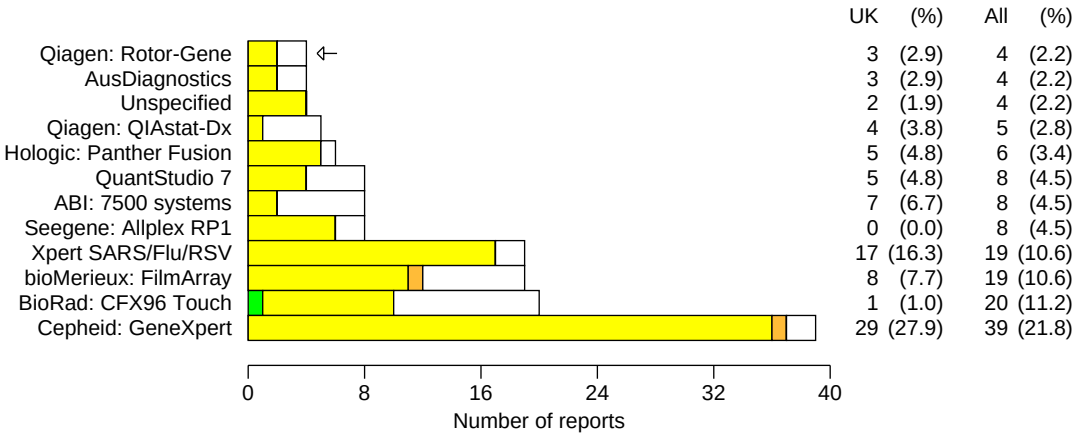


Additional pathogens identified:
Adenovirus (n=1)
Influenza virus B (n=1)

Specimen : 8335

Intended result: Influenza A positive (H1N1)
Clinical details: Nasopharyngeal aspirate from a 30-year-old asthmatic male with headache, breathing difficulty and body aches for the last 6 days

Amplification platform



Influenza virus A H1
Unidentified agent
Influenza virus A untyped
Influenza virus wrong type
Named virus other than that specified
No virus
Influenza virus A wrong subtype
Influenza virus A + an additional pathogen

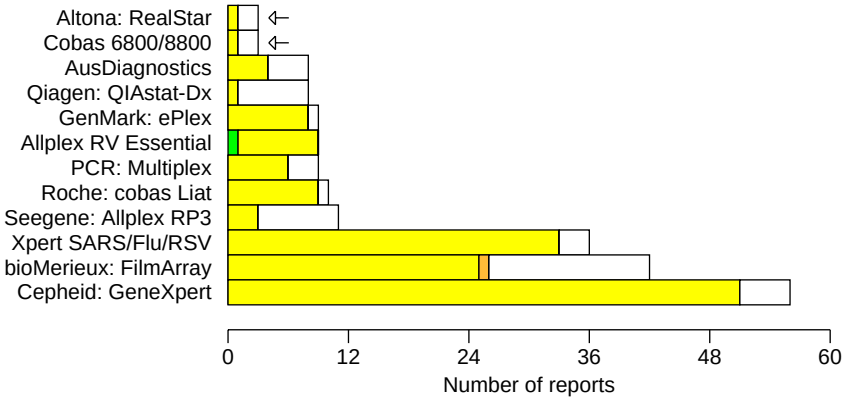
Published at 10:45 on Wednesday 27 March 2024

Four freeze-dried simulated nasopharyngeal aspirate samples were dispatched with a request to test each for respiratory viruses using molecular methods. Specimen 8334 contained Influenza B and HEp-2 cells and was prepared from a clinical isolate. Specimen 8335 contained Influenza A (H1) and HEp-2 cells and was prepared from a clinical isolate. Specimen 8336 contained RSV B and HEp-2 cells and was prepared from infected cells. Specimen 8337 contained Parainfluenza type 1 and HEp-2 cells and was prepared from infected cells.

Specimen : 8335

Intended result: Influenza A positive (H1N1)
Clinical details: Nasopharyngeal aspirate from a 30-year-old asthmatic male with headache, breathing difficulty and body aches for the last 6 days

Virus detection method (PCR amplification kit)



	UK	(%)	All	(%)
Altona: RealStar	1	(0.6)	3	(1.0)
Cobas 6800/8800	2	(1.2)	3	(1.0)
AusDiagnostics	6	(3.6)	8	(2.8)
Qiagen: QIAstat-Dx	6	(3.6)	8	(2.8)
GenMark: ePlex	7	(4.1)	9	(3.1)
Allplex RV Essential	0	(0.0)	9	(3.1)
PCR: Multiplex	5	(3.0)	9	(3.1)
Roche: cobas Liat	8	(4.7)	10	(3.5)
Seegene: Allplex RP3	0	(0.0)	11	(3.8)
Xpert SARS/Flu/RSV	30	(17.8)	36	(12.5)
bioMerieux: FilmArray	21	(12.4)	42	(14.6)
Cepheid: GeneXpert	40	(23.7)	56	(19.5)

Your Report : Influenza virus A H1
Your Score : **2**

Overall Results	UK	All	Score
Influenza virus A H1	27	57	2
Influenza virus wrong type	0	0	-1
Influenza A wrong subtype	0	0	1
Unidentified agent	0	0	0
Named virus	0	0	-1
Additional pathogen	1	2	-1
Influenza virus A untyped	79	155	2
No virus	0	2	0
Total	107	216	
% Correct	99.1	98.1	

Influenza virus A H1
Influenza virus wrong type
Influenza virus A wrong subtype
Unidentified agent
Named virus other than that specified
Influenza virus A + an additional pathogen
Influenza virus A untyped
No virus

Operated by UK Health Security Agency
61 Colindale Avenue
Colindale
London NW9 5EQ

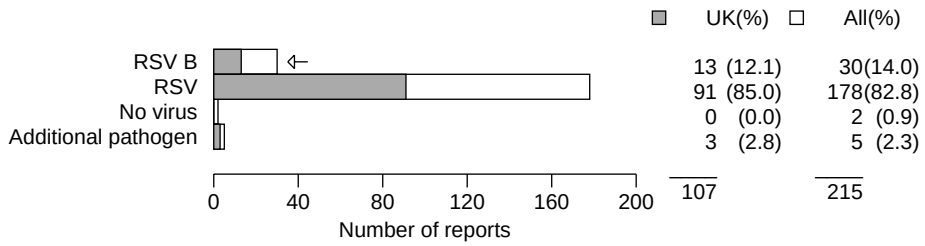
UK NEQAS for Microbiology
PO Box 63003
London NW9 1GH

Published at 10:45 on Wednesday 27 March 2024

Four freeze-dried simulated nasopharyngeal aspirate samples were dispatched with a request to test each for respiratory viruses using molecular methods. Specimen 8334 contained Influenza B and HEp-2 cells and was prepared from a clinical isolate. Specimen 8335 contained Influenza A (H1) and HEp-2 cells and was prepared from a clinical isolate. Specimen 8336 contained RSV B and HEp-2 cells and was prepared from infected cells. Specimen 8337 contained Parainfluenza type 1 and HEp-2 cells and was prepared from infected cells.

Specimen : 8336

Intended result: RSV B positive
Clinical details: Nasopharyngeal aspirate from a 2-year-old boy with nasal congestion and loss of appetite for the last 4 days

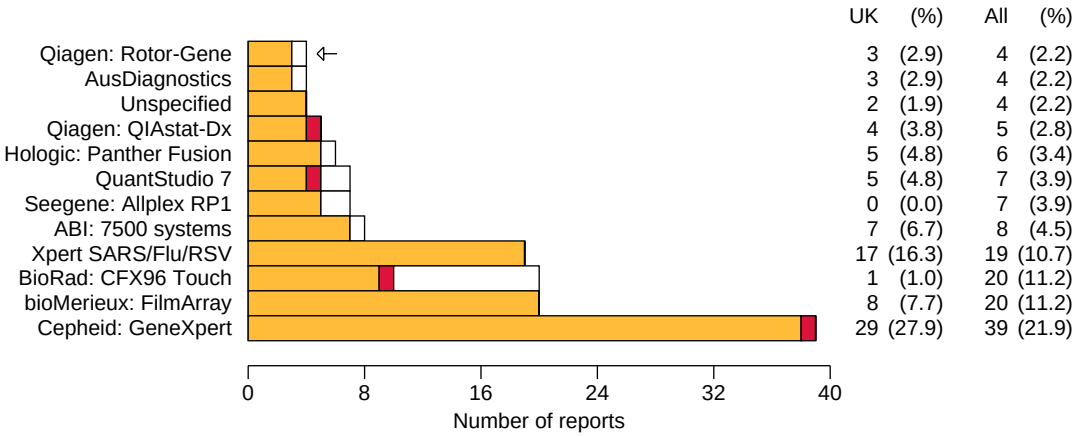


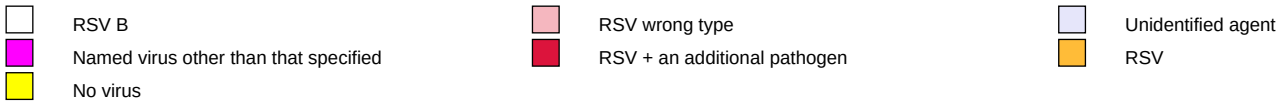
Additional pathogens identified:
Rhinovirus/enterovirus (n=1)
Influenza virus A (n=2)
Human coronavirus
SARS-CoV-2 (n=1)
Human parechoviruses (n=1)

Specimen : 8336

Intended result: RSV B positive
Clinical details: Nasopharyngeal aspirate from a 2-year-old boy with nasal congestion and loss of appetite for the last 4 days

Amplification platform





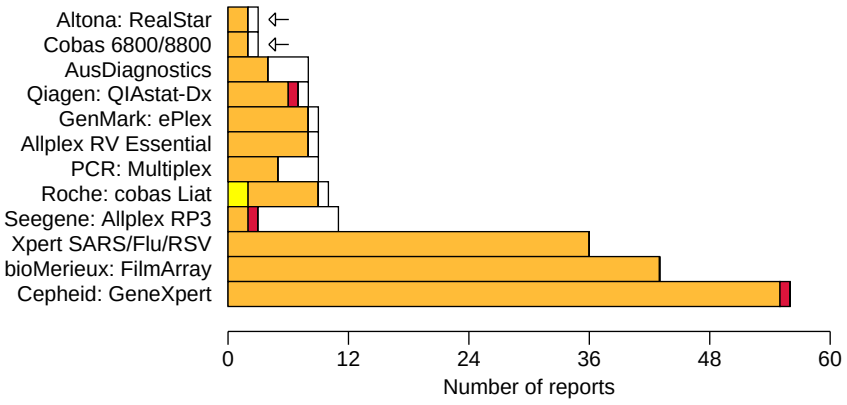
Published at 10:45 on Wednesday 27 March 2024

Four freeze-dried simulated nasopharyngeal aspirate samples were dispatched with a request to test each for respiratory viruses using molecular methods. Specimen 8334 contained Influenza B and HEp-2 cells and was prepared from a clinical isolate. Specimen 8335 contained Influenza A (H1) and HEp-2 cells and was prepared from a clinical isolate. Specimen 8336 contained RSV B and HEp-2 cells and was prepared from infected cells. Specimen 8337 contained Parainfluenza type 1 and HEp-2 cells and was prepared from infected cells.

Specimen : 8336

Intended result: RSV B positive
Clinical details: Nasopharyngeal aspirate from a 2-year-old boy with nasal congestion and loss of appetite for the last 4 days

Virus detection method (PCR amplification kit)



	UK	(%)	All	(%)
Altona: RealStar	1	(0.6)	3	(1.1)
Cobas 6800/8800	2	(1.2)	3	(1.1)
AusDiagnostics	6	(3.6)	8	(2.8)
Qiagen: QIAstat-Dx	6	(3.6)	8	(2.8)
GenMark: ePlex	7	(4.1)	9	(3.2)
Allplex RV Essential	0	(0.0)	9	(3.2)
PCR: Multiplex	5	(3.0)	9	(3.2)
Roche: cobas Liat	8	(4.7)	10	(3.5)
Seegene: Allplex RP3	0	(0.0)	11	(3.9)
Xpert SARS/Flu/RSV	30	(17.8)	36	(12.7)
bioMerieux: FilmArray	21	(12.4)	43	(15.1)
Cepheid: GeneXpert	40	(23.7)	56	(19.7)

RSV B
RSV wrong type
Unidentified agent
Named virus other than that specified
RSV + an additional pathogen
RSV
No virus

Your Report : RSV B
Your Score : **2**

Overall Results	UK	All	Score
RSV B	13	30	2
RSV wrong type	0	0	1
Unidentified agent	0	0	0
Named virus	0	0	-1
Additional pathogen	3	5	-1
RSV	91	178	2
No virus	0	2	0
Total	107	215	
% Correct	97.2	96.7	

Operated by UK Health Security Agency
61 Colindale Avenue
Colindale
London NW9 5EQ

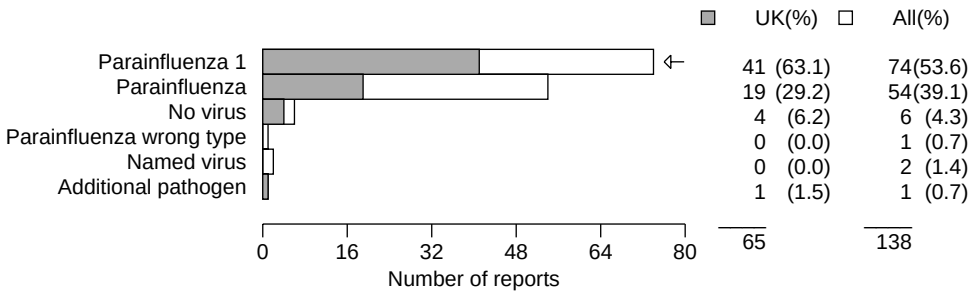
UK NEQAS for Microbiology
PO Box 63003
London NW9 1GH

Published at 10:45 on Wednesday 27 March 2024

Four freeze-dried simulated nasopharyngeal aspirate samples were dispatched with a request to test each for respiratory viruses using molecular methods. Specimen 8334 contained Influenza B and HEp-2 cells and was prepared from a clinical isolate. Specimen 8335 contained Influenza A (H1) and HEp-2 cells and was prepared from a clinical isolate. Specimen 8336 contained RSV B and HEp-2 cells and was prepared from infected cells. Specimen 8337 contained Parainfluenza type 1 and HEp-2 cells and was prepared from infected cells.

Specimen : 8337

Intended result: Parainfluenza (type 1) positive
Clinical details: Nasopharyngeal aspirate from a 29-year-old febrile female with a runny nose, sore throat and a cough



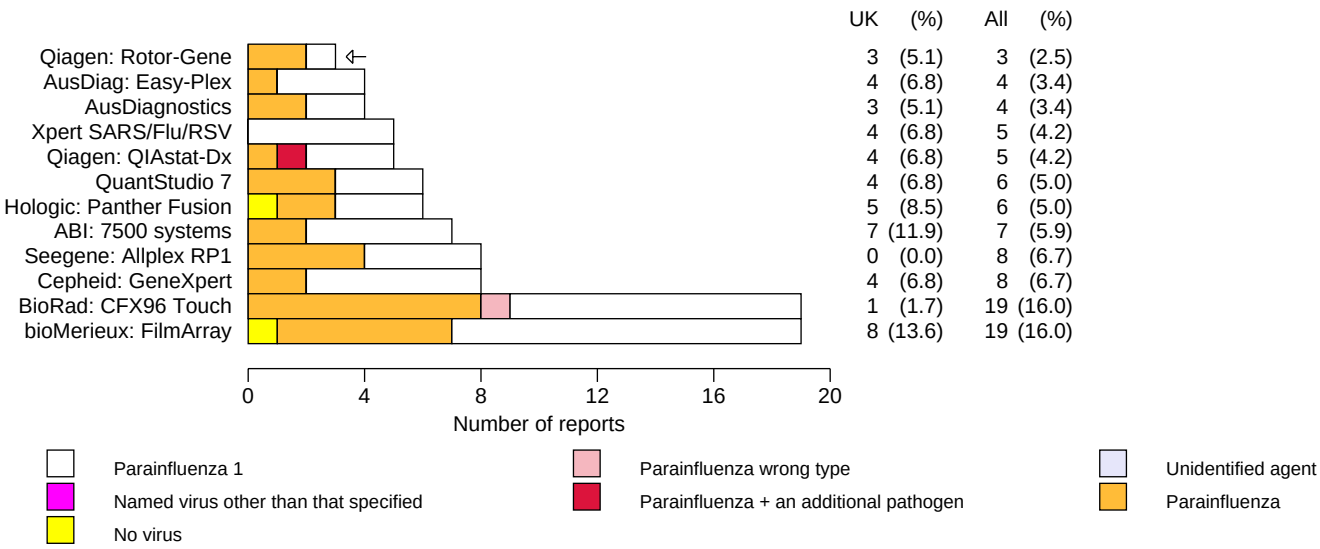
Additional pathogens identified:
Human coronavirus SARS-CoV-2 (n=1)

Named virus other than Parainfluenza:
Rhinovirus/enterovirus (n=1)
Human metapneumovirus (n=1)

Specimen : 8337

Intended result: Parainfluenza (type 1) positive
Clinical details: Nasopharyngeal aspirate from a 29-year-old febrile female with a runny nose, sore throat and a cough

Amplification platform



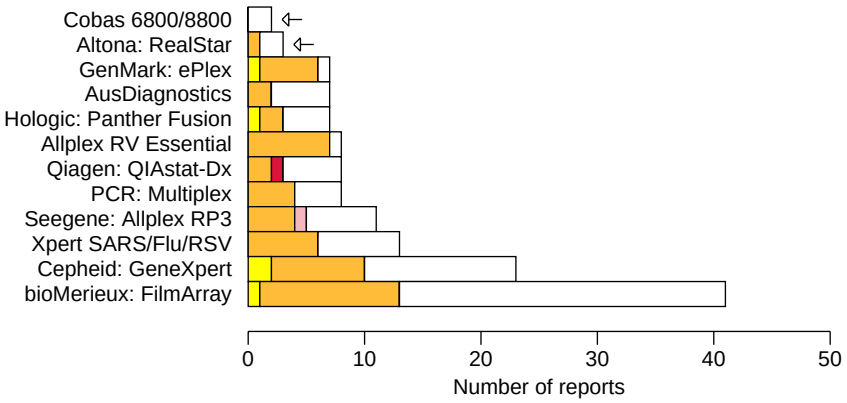
Published at 10:45 on Wednesday 27 March 2024

Four freeze-dried simulated nasopharyngeal aspirate samples were dispatched with a request to test each for respiratory viruses using molecular methods. Specimen 8334 contained Influenza B and HEp-2 cells and was prepared from a clinical isolate. Specimen 8335 contained Influenza A (H1) and HEp-2 cells and was prepared from a clinical isolate. Specimen 8336 contained RSV B and HEp-2 cells and was prepared from infected cells. Specimen 8337 contained Parainfluenza type 1 and HEp-2 cells and was prepared from infected cells.

Specimen : 8337

Intended result: Parainfluenza (type 1) positive
Clinical details: Nasopharyngeal aspirate from a 29-year-old febrile female with a runny nose, sore throat and a cough

Virus detection method (PCR amplification kit)



	UK	(%)	All	(%)
Cobas 6800/8800	1	(1.0)	2	(1.0)
Altona: RealStar	1	(1.0)	3	(1.5)
GenMark: ePlex	6	(5.8)	7	(3.6)
AusDiagnostics	6	(5.8)	7	(3.6)
Hologic: Panther Fusion	6	(5.8)	7	(3.6)
Allplex RV Essential	0	(0.0)	8	(4.1)
Qiagen: QIAstat-Dx	6	(5.8)	8	(4.1)
PCR: Multiplex	5	(4.8)	8	(4.1)
Seegene: Allplex RP3	0	(0.0)	11	(5.6)
Xpert SARS/Flu/RSV	10	(9.6)	13	(6.6)
Cepheid: GeneXpert	14	(13.5)	23	(11.7)
bioMerieux: FilmArray	21	(20.2)	41	(20.9)

Parainfluenza 1
Parainfluenza wrong type
Unidentified agent
Named virus other than that specified
Parainfluenza + an additional pathogen
Parainfluenza
No virus

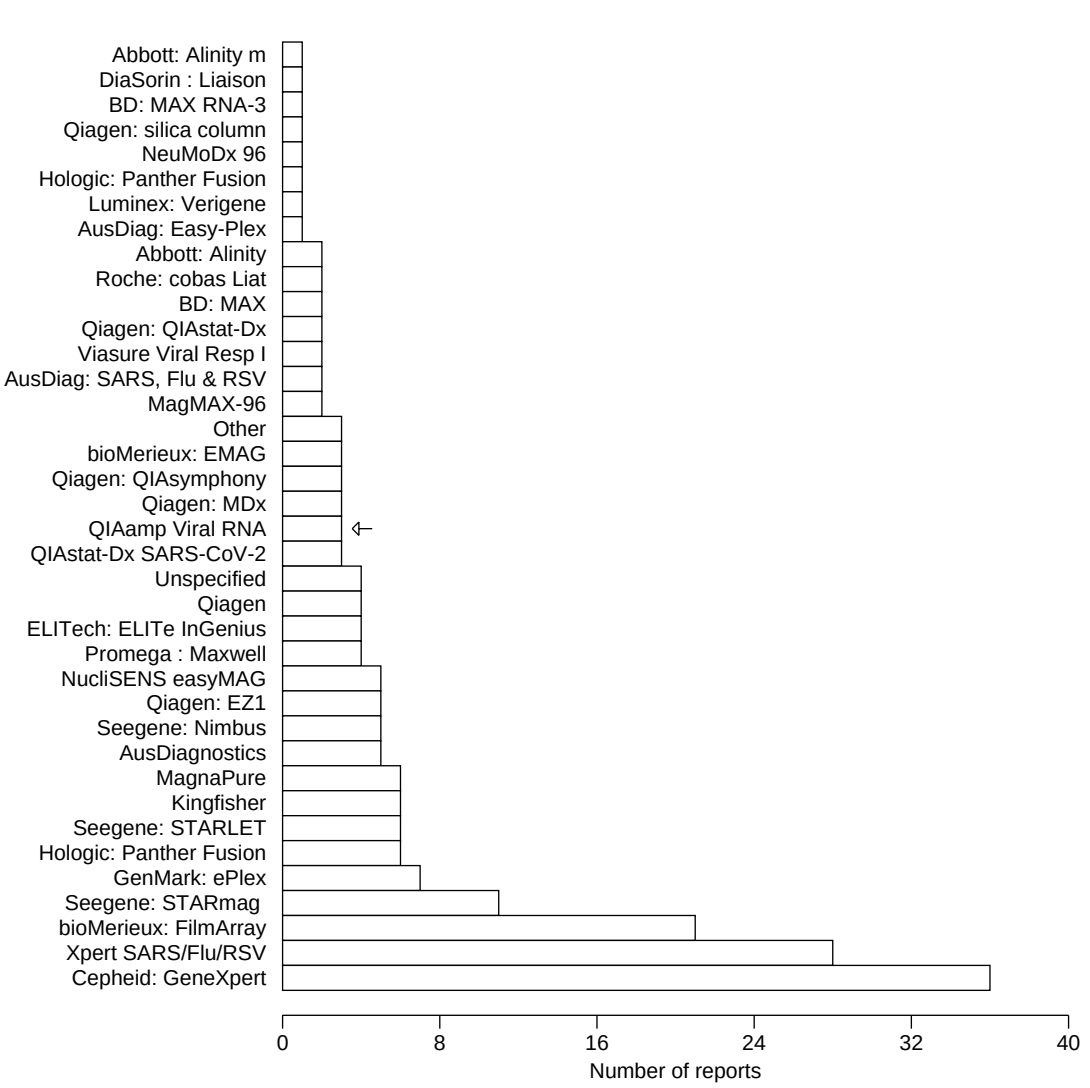
Your Report : Parainfluenza 1
Your Score : **2**

Overall Results	UK	All	Score
Parainfluenza 1	41	74	2
Parainfluenza wrong type	0	1	1
Unidentified agent	0	0	0
Named virus	0	2	-1
Additional pathogen	1	1	-1
Parainfluenza	19	54	2
No virus	4	6	0
Total	65	138	
% Correct	92.3	92.8	

UK NEQAS for Microbiology
PO Box 63003
London NW9 1GH

Published at 10:45 on Wednesday 27 March 2024

Nucleic acid extraction methods used by participating laboratories in this distribution



	UK	(%)	All	(%)
Abbott: Alinity m	1	(0.8)	1	(0.5)
DiaSorin : Liaison	0	(0.0)	1	(0.5)
BD: MAX RNA-3	0	(0.0)	1	(0.5)
Qiagen: silica column	0	(0.0)	1	(0.5)
NeuMoDx 96	1	(0.8)	1	(0.5)
Hologic: Panther Fusion	0	(0.0)	1	(0.5)
Luminex: Verigene	1	(0.8)	1	(0.5)
AusDiag: Easy-Plex	1	(0.8)	1	(0.5)
Abbott: Alinity	2	(1.7)	2	(1.0)
Roche: cobas Liat	1	(0.8)	2	(1.0)
BD: MAX	1	(0.8)	2	(1.0)
Qiagen: QIAstat-Dx	2	(1.7)	2	(1.0)
Viasure Viral Resp I	2	(1.7)	2	(1.0)
AusDiag: SARS, Flu & RSV	2	(1.7)	2	(1.0)
MagMAX-96	1	(0.8)	2	(1.0)
Other	1	(0.8)	3	(1.5)
bioMerieux: EMAG	2	(1.7)	3	(1.5)
Qiagen: QIAsymphony	1	(0.8)	3	(1.5)
Qiagen: MDx	2	(1.7)	3	(1.5)
QIAamp Viral RNA	2	(1.7)	3	(1.5)
QIAstat-Dx SARS-CoV-2	3	(2.5)	3	(1.5)
Unspecified	2	(1.7)	4	(2.0)
Qiagen	0	(0.0)	4	(2.0)
ELITech: ELITe InGenius	0	(0.0)	4	(2.0)
Promega : Maxwell	2	(1.7)	4	(2.0)
NucliSENS easyMAG	4	(3.3)	5	(2.5)
Qiagen: EZ1	2	(1.7)	5	(2.5)
Seegene: Nimbus	0	(0.0)	5	(2.5)
AusDiagnostics	5	(4.1)	5	(2.5)
MagnaPure	2	(1.7)	6	(3.0)
Kingfisher	5	(4.1)	6	(3.0)
Seegene: STARLET	1	(0.8)	6	(3.0)
Hologic: Panther Fusion	6	(5.0)	6	(3.0)
GenMark: ePlex	5	(4.1)	7	(3.4)
Seegene: STARmag	0	(0.0)	11	(5.4)
bioMerieux: FilmArray	10	(8.3)	21	(10.3)
Xpert SARS/Flu/RSV	23	(19.0)	28	(13.8)
Cepheid: GeneXpert	28	(23.1)	36	(17.7)

Published at 10:45 on Wednesday 27 March 2024

Comments on distribution 5541

Specimen 8337 : Parainfluenza 1 positive

This specimen contained a cultured human parainfluenza 1 that was subsequently diluted 1000x and Hep2 cells added as cellular control. The specimens were then prepared, freeze dried and QC checked prior to dispatch.

One hundred and thirty-eight participants reported their results on this specimen. 92.8% (128) reported the intended result and scored a maximum of 2. Of those who reported correct results, 42.2% (54) reported as human parainfluenza, 57.8% (74) reported as parainfluenza 1.

One participant reported a wrong parainfluenza type and scored 1, two reported a named virus other than parainfluenza and scored -1. Whilst another participant reported an additional pathogen and scored -1.

Six participants (4.3%) reported as no virus present and scored zero (0)

Please note that the 4th specimen in the Molecular detection of respiratory viruses EQA scheme can consist any of the following respiratory viruses: adenoviruses, rhinoviruses, bocavirus, human metapneumovirus, parechoviruses, enteroviruses, human parainfluenza virus (HPIV) 1-4 or coronaviruses including SARS-CoV-2, but will not contain **influenza viruses or RSV**. Please see link: (https://uknegasmicro.org.uk/wp-content/uploads/2022/10/UK-NEQAS-Molecular-detection-of-Respiratory-viruses.pdf)

If you do not examine the extended panel of viruses for the 4th specimen, please report as "Not Examined" and inform us about the protocol that you use in your laboratory so that you are not penalised.

Participants who did not obtain the intended results are requested to investigate and report the plausible root cause by completing an incident review form (IRF) online within 30 days of this report being published.
Non return of results without a valid reason is considered as poor performance and should also be reported in a similar manner.

IRFs are taken into considerations when poor performance analysis is carried out for the National Quality Assurance Advisory Panel (NQAAP). IRFs can be completed on the following link: https://uknegasmicro.org.uk/incident-review-form/

End of report

Published at 10:45 on Wednesday 27 March 2024