


Individual Report		QCMD 2020 Transplantation EQA Pilot Study			 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAM174198	Ref Code: TRANS20	Challenge: S	Analysis Type: Multiple Pathogen Qualitative	Dataset: -	Report UID: 0/0/2933	Laboratory

NOTE: Summary information only.


Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships ^[1]	Detected / Determined ^[2]		Not Detected / Not Determined ^[2]		Not Tested ^[2]	
				(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-01	Cytomegalovirus (AD169)	Plasma	D1	92.6	25	7.4	2	N/A	0
TRANS101S-02	Epstein-Barr virus	Plasma	DS1_2	77.8	21	7.4	2	14.8	4
TRANS101S-03	Cytomegalovirus (AD169)	Plasma	D1	92.6	25	7.4	2	N/A	0
TRANS101S-04	Human herpes virus 6 (type A)	Plasma		63	17	11.1	3	25.9	7
TRANS101S-05	B19 virus (type 1)	Plasma		48.1	13	11.1	3	40.7	11
TRANS101S-06	Negative	Plasma		88.9	24	11.1	3	N/A	0
TRANS101S-07	Epstein-Barr virus	Plasma	DS1_1	81.5	22	3.7	1	14.8	4
TRANS101S-08	BK virus (type 1b-2)	Plasma		70.4	19	7.4	2	22.2	6
TRANS101S-09	Adenovirus (type 1)	Transport Medium		74.1	20	3.7	1	22.2	6
TRANS101S-10	Adenovirus (type 12)	Transport Medium		66.7	18	11.1	3	22.2	6

[1] **Sample Relationships:** Indicates the relationships of the samples within this challenge. The highest titre member of dilution series DS1 is indicated by DS1_1 and further members of the series as DS1_2, DS1_3 etc. in order of reducing titre. Additional dilution series are indicated by DS2 (e.g DS2_1, DS2_2 etc.), DS3 (e.g. DS3_1, DS3_2 etc.). If one duplicate pair is present this is indicated by 'D1'. Further duplicate pairs are indicated by 'D2', 'D3' etc.

[2] **Detected / Determined; Not Detected / Not Determined; Not Tested:** The percentage (%) of datasets reported by all participants in relation to the assigned status of the panel member i.e. 'positive' or 'negative' and the expected pathogen type as defined through pre-testing and the total number of datasets (n) for each panel member.

For further details please refer to the current participant manual.

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EQA Assessment Group ^[1]	N/A (Refer to My Workflow details section below)
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Your Summary Results (Core Samples)

Sample Code	Expected Result ^[2]		Your Final Laboratory Reported Result ^[3]			Sample Status ^[7]	Detection Frequency ^[8]	Detection Score ^[9]
	Qualitative	Pathogen ID	Pathogen included in workflow(s) ^[4] Yes/No	Qualitative ^[5]	Reported Pathogen ID ^[6]			
TRANS101S-01	Positive	Cytomegalovirus	-	-	-	Core	Detected	-
TRANS101S-02	Positive	Epstein-Barr virus	-	-	-	Core	Detected	-
TRANS101S-03	Positive	Cytomegalovirus	-	-	-	Core	Detected	-
TRANS101S-04	Positive	Human herpes virus 6	-	-	-	Core	Detected	-
TRANS101S-05	Positive	B19 virus	-	-	-	Core	Detected	-
TRANS101S-06	Negative		-	-	-	Core	Negative	-
TRANS101S-07	Positive	Epstein-Barr virus	-	-	-	Core	Frequently Detected	-
TRANS101S-08	Positive	BK virus	-	-	-	Core	Detected	-
TRANS101S-09	Positive	Adenovirus	-	-	-	Core	Frequently Detected	-
TRANS101S-10	Positive	Adenovirus	-	-	-	Core	Detected	-

[1] **EQA Assessment Group:** To aid analysis participant results are grouped according to the molecular amplification/ detection method specified within their molecular workflow for this challenge/ distribution. For further details refer to the Additional Information: Individual Panel Member Analysis section of this report.

[2] **Expected Result:** positive / negative result and the specific pathogen present within each panel member.

[3] **Your Final Laboratory Reported Result:** the final reported result which may be based on one or more workflows used to test each panel member.

[4] **Pathogen included in workflow(s):** Yes / No answer to whether the expected pathogen was tested for.

[5] **Qualitative:** The final qualitative result you reported for each sample within this EQA challenge / distribution.


[6] **Reported Pathogen ID:** The final pathogen(s) identification you reported for each sample within this EQA challenge / distribution.

[7] **Sample Status:** Sample Status: EQA samples are defined as "CORE" or "EDUCATIONAL". Core proficiency samples are reviewed by the QCMD Scientific Expert(s). This is on the basis of scientific information, clinical relevance, current literature and, where appropriate, professional clinical guidelines. Participating laboratories are expected to report core proficiency samples correctly within the EQA challenge / distribution.

[8] **Detection Frequency:** To aid qualitative analysis each panel member is assigned a frequency of detection. This is based on the peer group consensus of all qualitative results returned by participants within the EQA challenge/distribution. Note that the detection frequency is assigned using only datasets submitted using workflows including the target pathogen.

[9] **Detection Score:** Your detection scores are based on the assigned detection frequency of each panel member, where 0 is "highly satisfactory" and 3 (three) is "highly unsatisfactory"

For further details please refer to the current participant manual.

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Multiple Pathogen Programme - Qualitative Assessment of Results

Results are categorised based on the workflow used and the pathogen(s) targeted as shown in the table below.


Expected Qualitative Result	Laboratory Reported Results						Result Category	Sample Weighting				
	Positive	Negative	Not Determined	Expected pathogen(s) included in workflow(s)		Expected pathogen(s) not included in workflow(s)		Frequently Detected (>95% positive)	Detected (Between 65 and 95% positive)	Infrequently Detected (Less than 65% positive)	Negative	
				Expected pathogen(s) detected	Expected pathogen(s) not detected							
Positive	✓			✓			Expected Pathogen Reported	Detected / Determined	0	0	0	N/A
Negative		✓					No pathogen reported	Detected / Determined	N/A	N/A	N/A	0
Negative	✓						False Positive	False Positive	3	3	3	N/A
Positive	✓					✓	Reported Pathogen(s) not as expected	False Positive	3	3	3	N/A
Positive	✓						Reported Pathogen(s) not as expected	False Positive	3	3	3	N/A
Positive or Negative			✓				Result reported as not determined	Not Determined	3	2	1	N/A
Positive		✓					No pathogen reported	False Negative	3	2	1	N/A
Positive		✓				✓	Expected pathogen not tested for	Not Tested	Not Scored	Not Scored	Not Scored	N/A

My Workflow Details:

N/A

Further Programme Details

Number of Participants	35
Number of Countries	13
Number of Respondents	25
Number of Datasets Submitted	27

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EQA Programme Aims

The viral transplant EQA pilot study focuses on the molecular detection and determination of various cytomegalovirus, Epstein-Barr virus, human herpes virus 6, BK virus, B19 virus and adenovirus strains.

Feedback and Enquiries

Participants are encouraged to read the QCMD Participants' Manual, which can be downloaded from the QCMD website.

Any enquiries should be submitted through the 'Contact Us' form that you can find in the 'Help' section of your QCMD (ITEMS) Participant Profile Area.

Panel member analysis is separated into CORE samples followed by EDUCATIONAL samples.

Individual Panel Member Analysis (Core Samples)

Qualitative analysis for each panel member is provided in relation to your EQA assessment group. EQA assessment groups are established using the molecular workflow information reported by all participants within this EQA challenge / distribution.

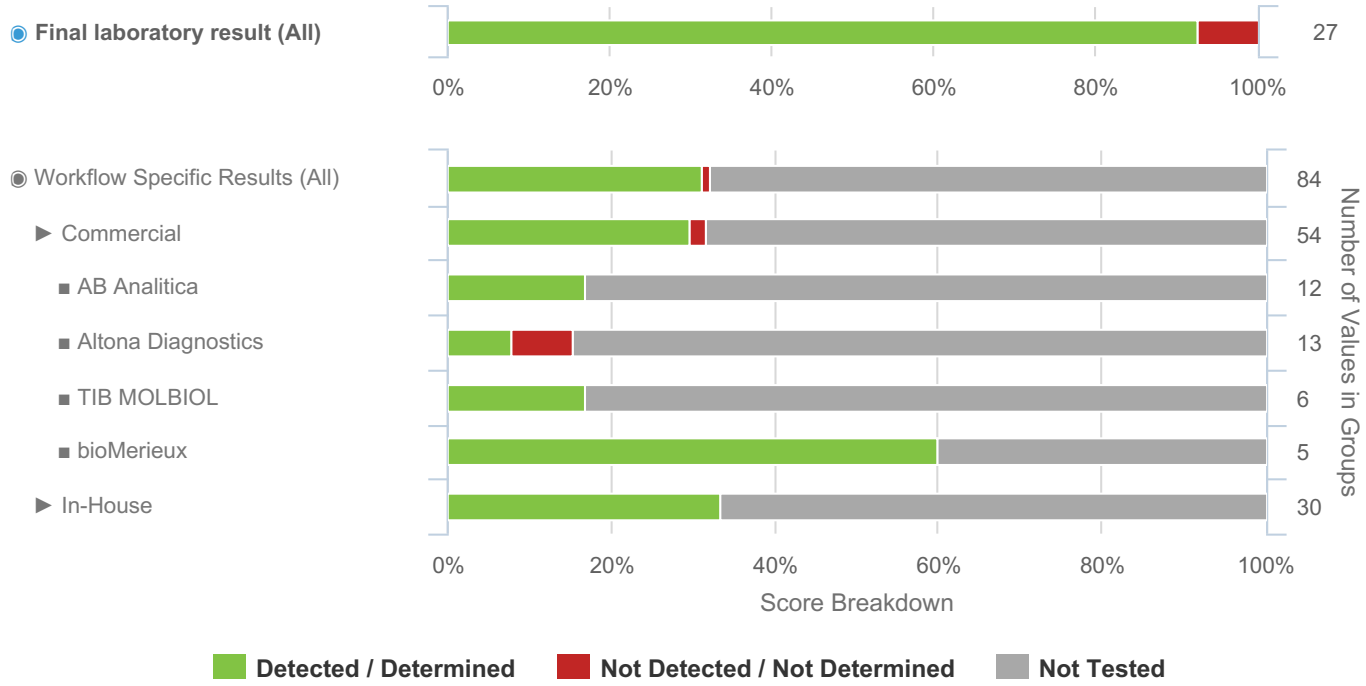
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or in house technology/method. The highest level assessment grouping is "All" participant reported qualitative results.

A breakdown of qualitative results reported for all workflows used by participants on each of the panel members within this EQA challenge / distribution is provided below. Note: participants may use multiple workflows for each sample.

The final laboratory result indicates the final reported result which may be based on one or more workflows used to test each panel member.

Catalogue Code: QAM174198	Ref Code: TRANS20	Challenge: S	Analysis Type: Multiple Pathogen Qualitative	Dataset: -	Report UID: 0/0/2933	Laboratory
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Sample Code	Sample Content	Matrix	Sample Relationships	Expected targets	Detected / Determined		Not Detected / Not Determined		Not Tested	
					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-01	Cytomegalovirus (AD169)	Plasma	D1	Cytomegalovirus	92.6	25	7.4	2	N/A	0

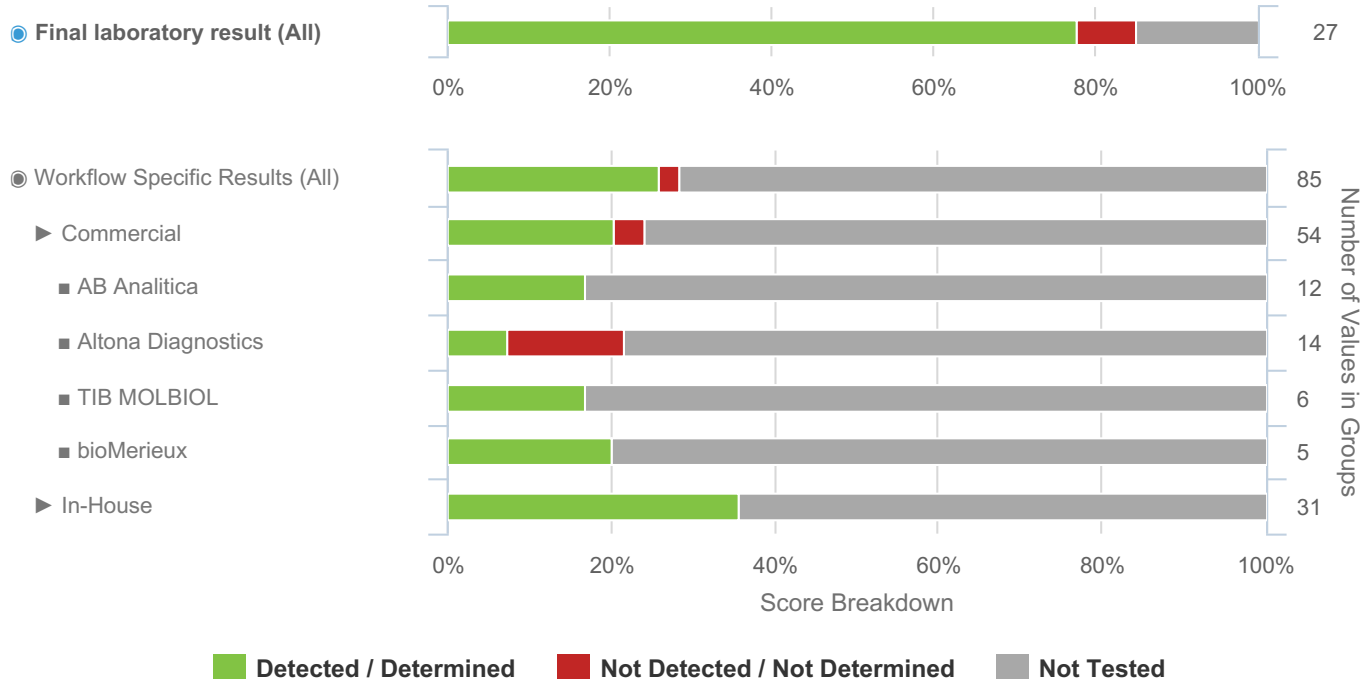


Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=4), ELITech Group - Elitech Elite Real Time kit (n=4), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=3), Roche - Roche Cobas 4800 (n=3), Vela Diagnostics (n=2), Vela Diagnostics - Vela Dx Sentosa (n=2), bioMerieux - bioMerieux Primers/Probes (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), fast-track DIAGNOSTICS (n=1), fast-track DIAGNOSTICS - FTD real time PCR (n=1)

Groups Rolled Up: AB Analytica - AB Analytica REALQUALITY RQ (n=12), Altona Diagnostics - Altona Diagnostics RealStar (n=13), TIB MOLBIOL - TIB MOLBIOL LightMix (n=6), In-House - Real-time In-House PCR (n=30)

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Sample Code	Sample Content	Matrix	Sample Relationships	Expected targets	Detected / Determined		Not Detected / Not Determined		Not Tested	
					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-02	Epstein-Barr virus	Plasma	DS1_2	Epstein-Barr virus	77.8	21	7.4	2	14.8	4

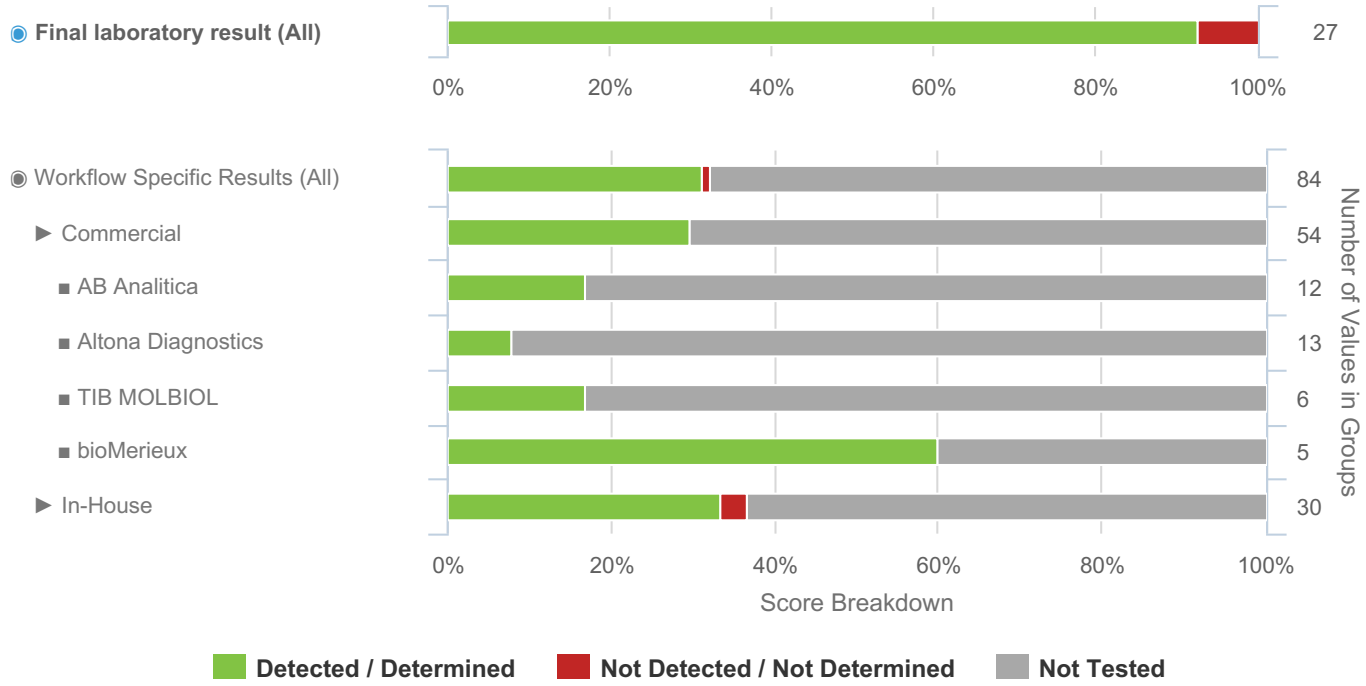


Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=4), ELITech Group - Elitech Elite Real Time kit (n=4), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=2), Roche - Roche Cobas 4800 (n=2), Vela Diagnostics (n=2), Vela Diagnostics - Vela Dx Sentosa (n=2), bioMerieux - bioMerieux Primers/Probes (n=2), bioMerieux - bioMerieux R-gene Quant Kit (n=3), fast-track DIAGNOSTICS (n=1), fast-track DIAGNOSTICS - FTD real time PCR (n=1)

Groups Rolled Up: AB Analytica - AB Analytica REALQUALITY RQ (n=12), Altona Diagnostics - Altona Diagnostics RealStar (n=14), TIB MOLBIOL - TIB MOLBIOL LightMix (n=6), In-House - Real-time In-House PCR (n=31)

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Sample Code	Sample Content	Matrix	Sample Relationships	Expected targets	Detected / Determined		Not Detected / Not Determined		Not Tested	
					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-03	Cytomegalovirus (AD169)	Plasma	D1	Cytomegalovirus	92.6	25	7.4	2	N/A	0



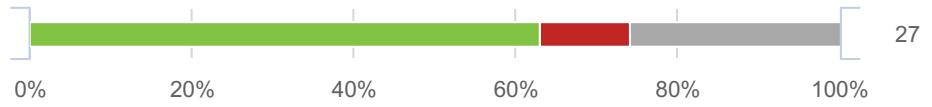
Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=4), ELITech Group - Elitech Elite Real Time kit (n=4), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=3), Roche - Roche Cobas 4800 (n=3), Vela Diagnostics (n=2), Vela Diagnostics - Vela Dx Sentosa (n=2), bioMerieux - bioMerieux Primers/Probes (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), fast-track DIAGNOSTICS (n=1), fast-track DIAGNOSTICS - FTD real time PCR (n=1)

Groups Rolled Up: AB Analytica - AB Analytica REALQUALITY RQ (n=12), Altona Diagnostics - Altona Diagnostics RealStar (n=13), TIB MOLBIOL - TIB MOLBIOL LightMix (n=6), In-House - Real-time In-House PCR (n=30)

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Sample Code	Sample Content	Matrix	Sample Relationships	Expected targets	Detected / Determined		Not Detected / Not Determined		Not Tested	
					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-04	Human herpes virus 6 (type A)	Plasma		Human herpes virus 6	63	17	11.1	3	25.9	7

● Final laboratory result (All)

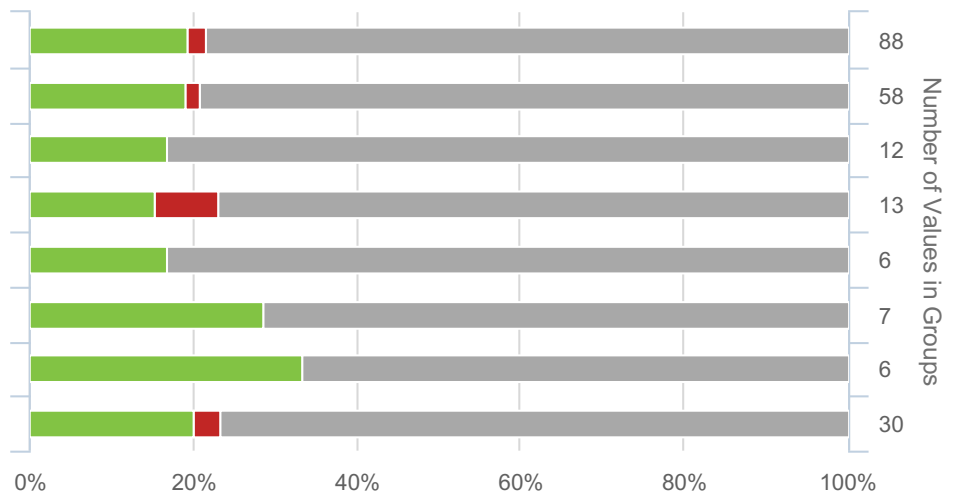


● Workflow Specific Results (All)

▶ Commercial

- AB Analytica
- Altona Diagnostics
- TIB MOLBIOL
- bioMerieux
- bioMerieux R-gene Quant Kit

▶ In-House



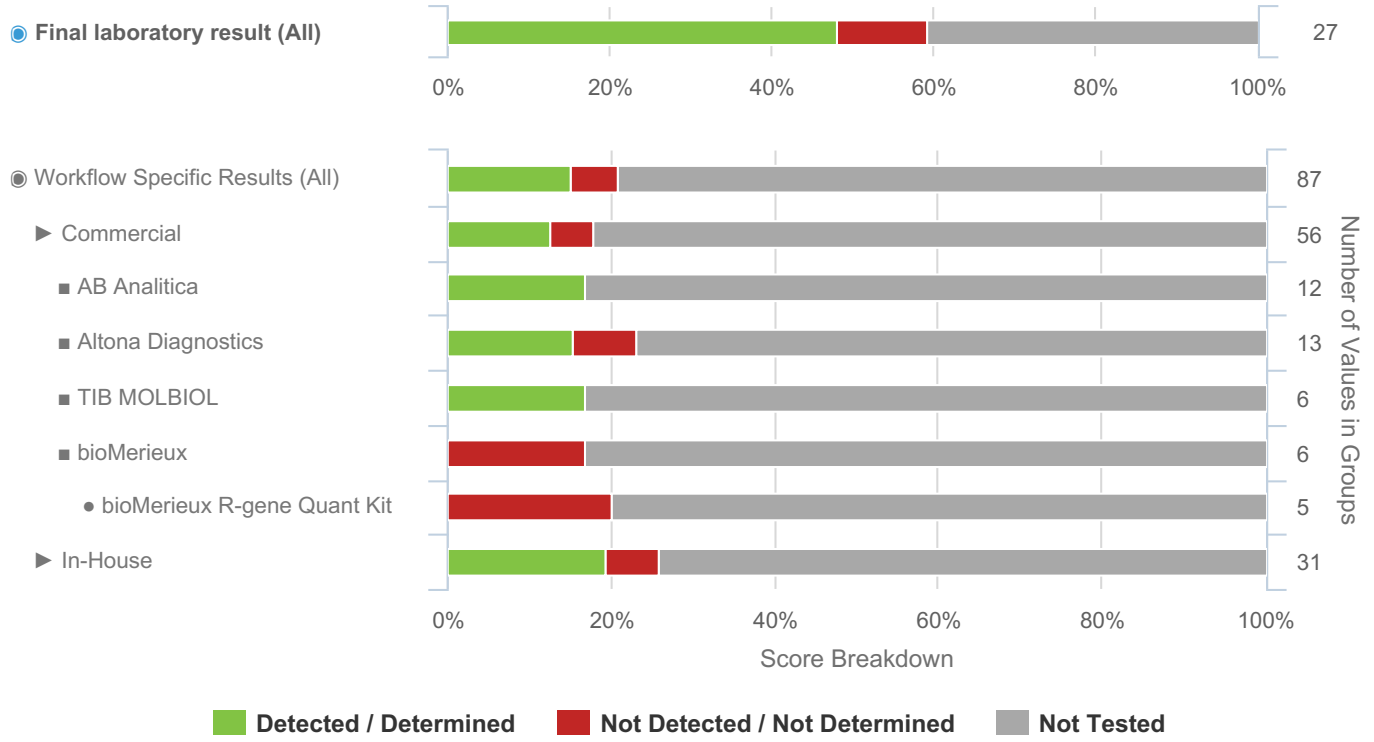
■ Detected / Determined
 ■ Not Detected / Not Determined
 ■ Not Tested

Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=4), ELITech Group - Elitech Elite Real Time kit (n=4), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=3), Roche - Roche Cobas 4800 (n=3), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vela Diagnostics (n=2), Vela Diagnostics - Vela Dx Sentosa (n=2), bioMerieux - bioMerieux Primers/Probes (n=1), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD real time PCR (n=2)

Groups Rolled Up: AB Analytica - AB Analytica REALQUALITY RQ (n=12), Altona Diagnostics - Altona Diagnostics RealStar (n=13), TIB MOLBIOL - TIB MOLBIOL LightMix (n=6), In-House - Real-time In-House PCR (n=30)

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Sample Code	Sample Content	Matrix	Sample Relationships	Expected targets	Detected / Determined		Not Detected / Not Determined		Not Tested	
					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-05	B19 virus (type 1)	Plasma		B19 virus	48.1	13	11.1	3	40.7	11

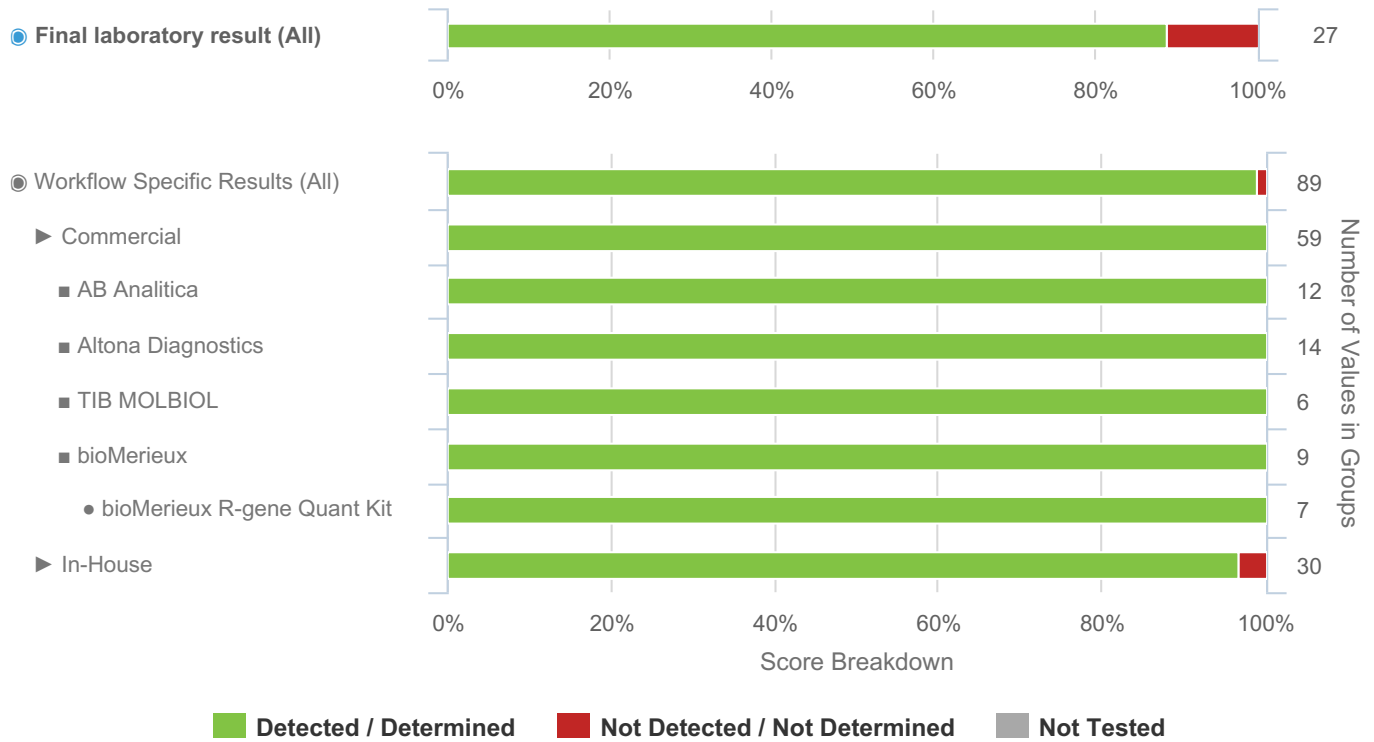


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Sample Code	Sample Content	Matrix	Sample Relationships	Expected targets	Detected / Determined		Not Detected / Not Determined		Not Tested	
					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-06	Negative	Plasma			88.9	24	11.1	3	N/A	0

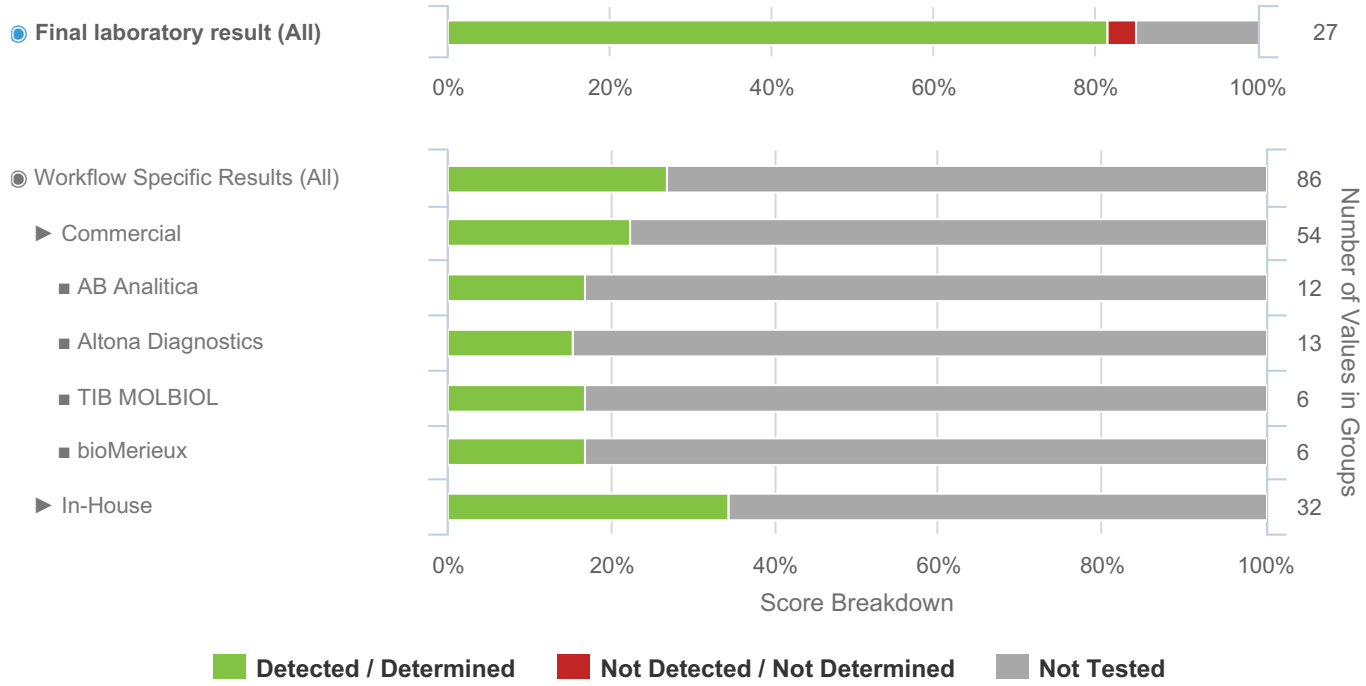


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					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-07	Epstein-Barr virus	Plasma	DS1_1	Epstein-Barr virus	81.5	22	3.7	1	14.8	4

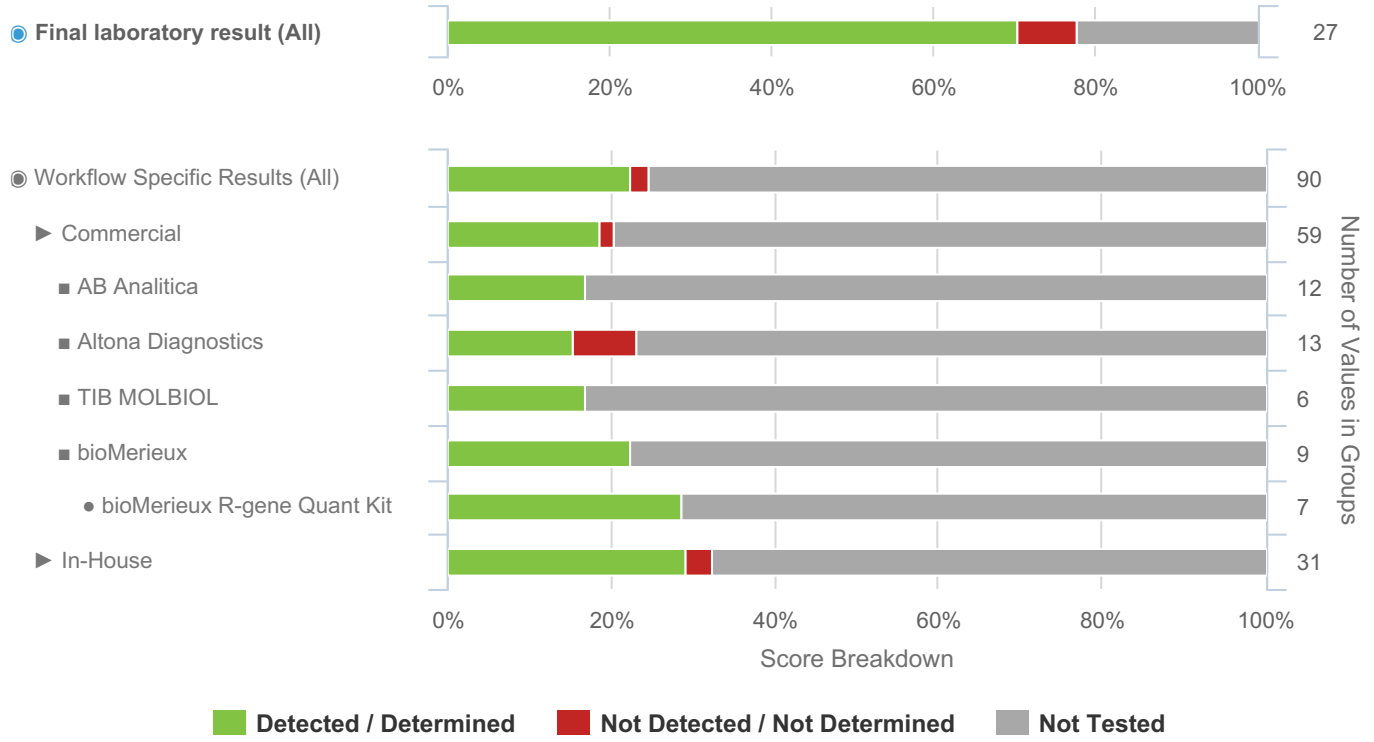


Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=4), ELITech Group - Elitech Elite Real Time kit (n=4), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=3), Roche - Roche Cobas 4800 (n=3), Vela Diagnostics (n=2), Vela Diagnostics - Vela Dx Sentosa (n=2), bioMerieux - bioMerieux Primers/Probes (n=2), bioMerieux - bioMerieux R-gene Quant Kit (n=4), fast-track DIAGNOSTICS (n=1), fast-track DIAGNOSTICS - FTD real time PCR (n=1)

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Sample Code	Sample Content	Matrix	Sample Relationships	Expected targets	Detected / Determined		Not Detected / Not Determined		Not Tested	
					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-08	BK virus (type 1b-2)	Plasma		BK virus	70.4	19	7.4	2	22.2	6

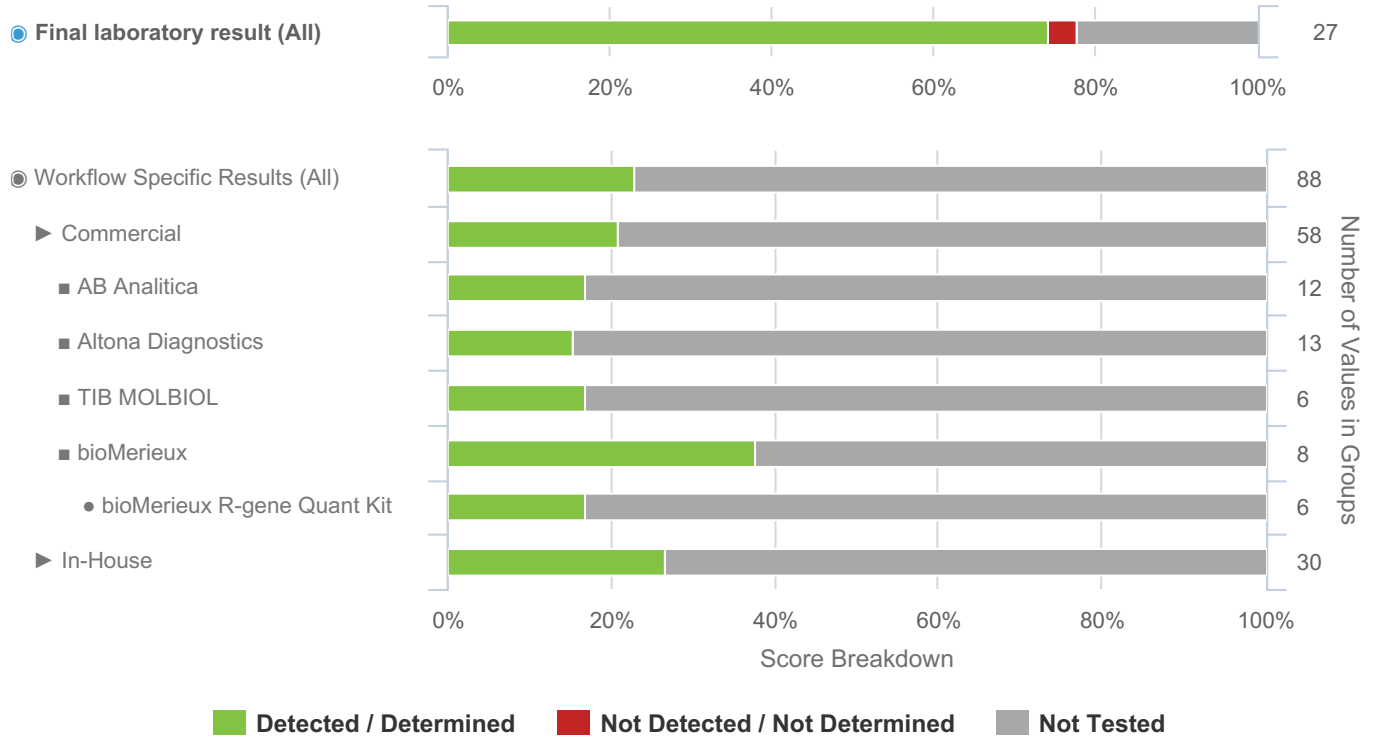


Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=4), ELITech Group - Elitech Elite Real Time kit (n=4), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=3), Roche - Roche Cobas 4800 (n=3), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vela Diagnostics (n=2), Vela Diagnostics - Vela Dx Sentosa (n=2), bioMerieux - bioMerieux Primers/Probes (n=2), fast-track DIAGNOSTICS (n=1), fast-track DIAGNOSTICS - FTD real time PCR (n=1)

Groups Rolled Up: AB Analytica - AB Analytica REALQUALITY RQ (n=12), Altona Diagnostics - Altona Diagnostics RealStar (n=13), TIB MOLBIOL - TIB MOLBIOL LightMix (n=6), In-House - Real-time In-House PCR (n=31)

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					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-09	Adenovirus (type 1)	Transport Medium		Adenovirus	74.1	20	3.7	1	22.2	6

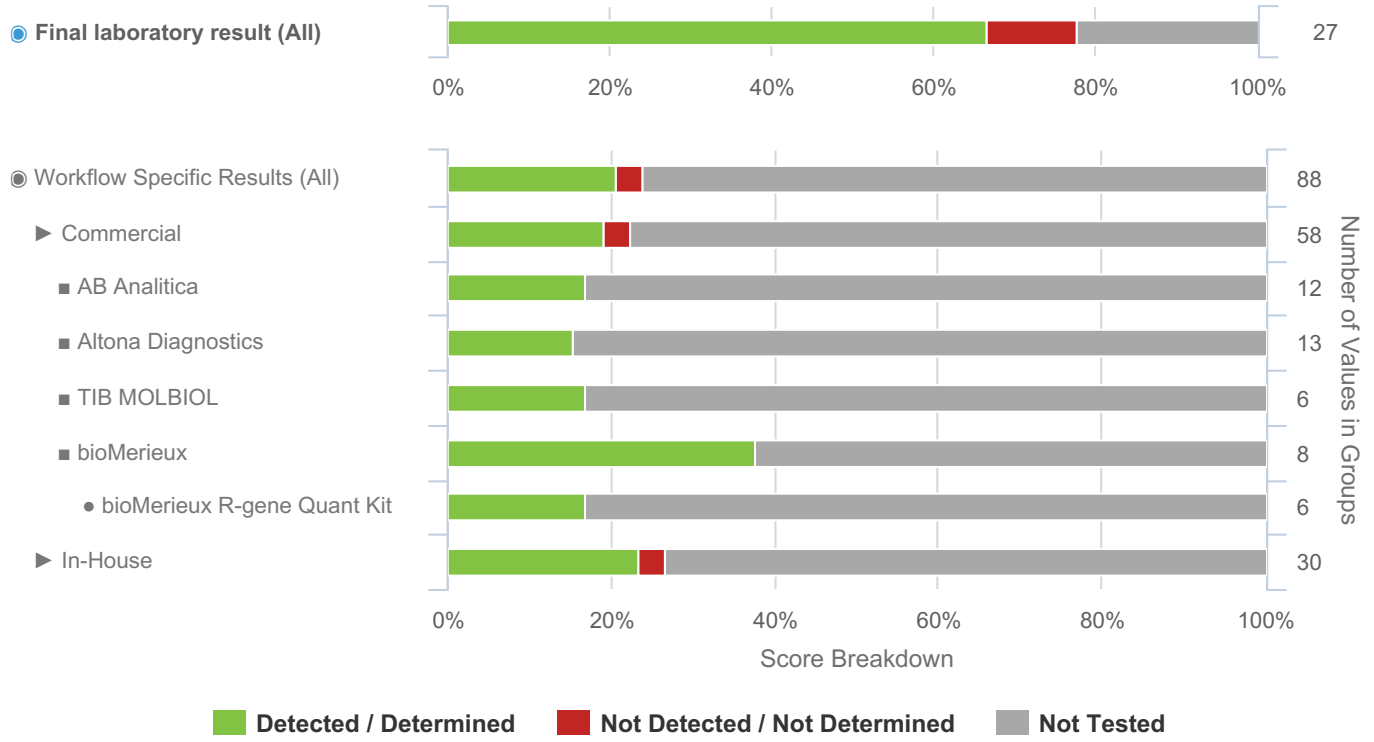


Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=4), ELITech Group - Elitech Elite Real Time kit (n=4), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=3), Roche - Roche Cobas 4800 (n=3), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vela Diagnostics (n=2), Vela Diagnostics - Vela Dx Sentosa (n=2), bioMerieux - bioMerieux Primers/Probes (n=2), fast-track DIAGNOSTICS (n=1), fast-track DIAGNOSTICS - FTD real time PCR (n=1)

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Sample Code	Sample Content	Matrix	Sample Relationships	Expected targets	Detected / Determined		Not Detected / Not Determined		Not Tested	
					(%)	(n)	(%)	(n)	(%)	(n)
TRANS101S-10	Adenovirus (type 12)	Transport Medium		Adenovirus	66.7	18	11.1	3	22.2	6



Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=4), ELITech Group - Elitech Elite Real Time kit (n=4), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=3), Roche - Roche Cobas 4800 (n=3), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vela Diagnostics (n=2), Vela Diagnostics - Vela Dx Sentosa (n=2), bioMerieux - bioMerieux Primers/Probes (n=2), fast-track DIAGNOSTICS (n=1), fast-track DIAGNOSTICS - FTD real time PCR (n=1)

Groups Rolled Up: AB Analytica - AB Analytica REALQUALITY RQ (n=12), Altona Diagnostics - Altona Diagnostics RealStar (n=13), TIB MOLBIOL - TIB MOLBIOL LightMix (n=6), In-House - Real-time In-House PCR (n=30)

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