QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18

Challenge:

C2

Analysis Type:
Qualitative and Quantitative

Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

Intended Results / Panel Composition

Sample Code	ample Code Sample Content Sample Sample Relationships [1] Detection Frequency [2]	Sample Status ^[3]	Consensus (Copies/ml) ^[4]		Range [5]			
						(Log ₁₀)	(n)	
CMV DNA 18C2-01	CMV (AD169)	Plasma	DS1_2	Frequently Detected	EDUCATIONAL	2.373	72	1.176 - 3.167
CMV DNA 18C2-02	CMV (AD169)	Plasma	DS1_1	Frequently Detected	CORE	3.874	85	3.072 - 4.606
CMV DNA 18C2-03	EBV	Plasma	-	Negative	CORE	N/A	N/A	N/A
CMV DNA 18C2-04	CMV (Merlin)	Plasma	-	Frequently Detected	CORE	3.636	85	2.715 - 5.373
CMV DNA 18C2-05	CMV (Clinical)	Plasma	-	Frequently Detected	EDUCATIONAL	2.749	81	1.556 - 3.754

- [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] **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 from participants within the EQA challenge / distribution.
- [3] 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.
- [4] **Consensus (Copies/ml):** Mean consensus (Log₁₀) calculated from data returned by participants with outliers removed and number of quantitative results (n) returned for each panel member.
- [5] Range: Maximum and minimum quantitative value (Copies/ml) reported by participants within this challenge without outliers removed. For further details please refer to the current participant manual.

Your Summary Results

Units	Copies/ml
EQA Assessment Group [1]	Commercial
Core Panel Detection (Qualitative) Score [2]	0
Core Panel Estimation (Quantitative) Score [3]	0

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Core Panel Members Results

Sample Code	Unitage	EQA Assessment Group Consensus	SD [5]	Quantitative Result		Qualitative Result			
		[4]		Your Result	Estimation Score [7]	Percentage Correct (All)	Your Result	Detection Score [10]	
CMV DNA 18C2-02	Copies/ml	3.895	0.275	4.125	0	100.0	Positive	0	
CMV DNA 18C2-03	Copies/ml	N/A	-	LOD/NR	N/A	98.6	Negative	0	
CMV DNA 18C2-04	Copies/ml	3.692	0.477	3.780	0	100.0	Positive	0	

All quantitative values above expressed in Log₁₀ Copies/ml.

- [1] **EQA Assessment Group:** To aid data 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] Core Panel Detection (Qualitative) Score: An overall core panel detection score provided per challenge / distribution.
- [3] Core Panel Estimation (Quantitative) Score: An overall core panel estimation score provided per challenge / distribution.
- [4] EQA Assessment Group Consensus: The mean value for all results within your EQA assessment group.
- [5] SD: The standard deviation for results from your EQA assessment group.
- [6] Your Quantitative Result: The quantitative result you returned for each sample within this EQA challenge. LOD/NR (limit of detection or not reported).
- [7] **Estimation Score**: Your estimation (quantitative) scores are calculated based on your variation from the consensus for your EQA assessment group. With 0 (zero) scored if the quantitative value you reported is within one standard deviation (SD) from your EQA assessment group consensus, 1 (one) if your quantitative value is between one and two SDs, 2 (two) if your quantitative value is within two and three SDs and 3 (three) if your quantitative value is more than three SDs from the mean of your EQA assessment group.
- [8] Percentage Correct (All): Percentage of datasets (%) reporting the correct qualitative results for each panel member.
- [9] Your Qualitative Result: The qualitative result you reported for each sample within this EQA challenge / distribution.
- [10] **Detection Score:** Your detection (qualitative) scores are based on the assigned detection frequency of each panel members, where 0 (zero) is "highly satisfactory" and 3 (three) is "highly unsatisfactory". Scores are provided for individual panel members.

For further details please refer to the current participant manual.

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMV DNA 18 Challenge:

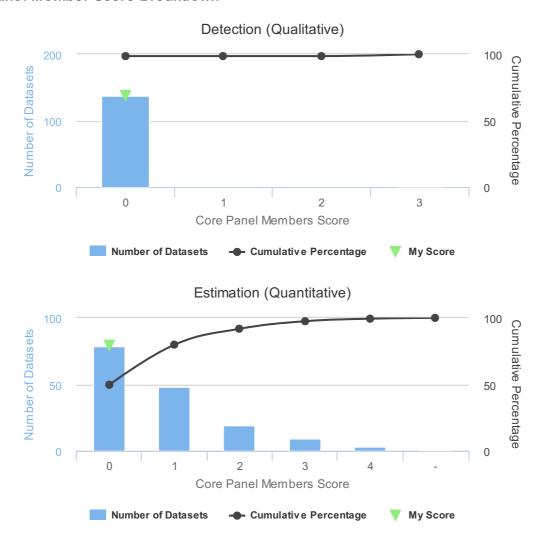
Analysis Type:
Qualitative and Quantitative

Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

Core Panel Member Score Breakdown



Core Panel Member Score Breakdown - Detection: This figure gives you a breakdown of the qualitative detection scores for all qualitative datasets returned within this EQA challenge / distribution independent of the EQA assessment group. Panel detection scores are generated from only those panel members that are defined as "CORE".

Core Panel Member Score Breakdown - Estimation: This figure gives you a breakdown of the quantitative estimation scores for all quantitative datasets returned within this EQA challenge / distribution independent of the EQA assessment group. Panel estimation scores are based on positive core panel members only. Those datasets that did not return quantitative values for all core samples are represented by '-'. For further details please refer to the current participant manual.

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMV DNA 18 Challenge:

C2

Analysis Type:

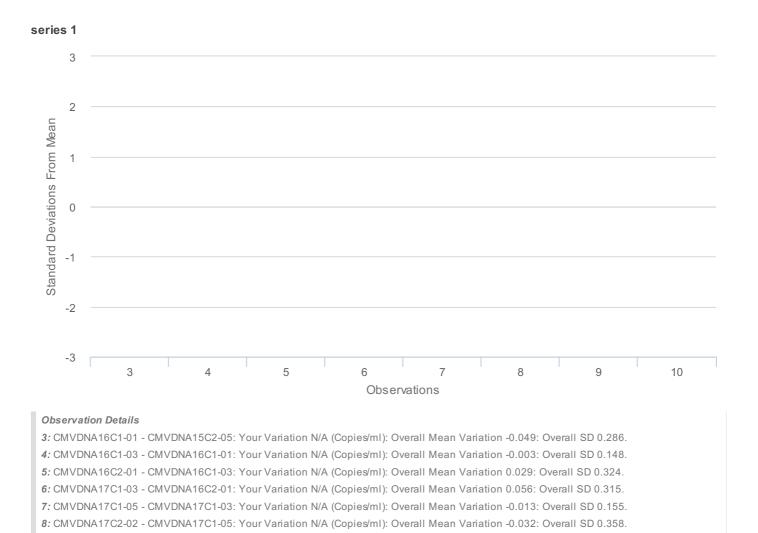
Qualitative and Quantitative

Dataset: 248432

Report UID: 4254/248432/1680

Laboratory **DE182**

Duplicate Sample Performance Over Time



QCMD monitors your laboratory's performance over time based on the reported quantitative variation between duplicate panel members within the EQA challenge and, where appropriate, across EQA challenges.

The mean variation and standard deviation are calculated from the quantitative variation reported by each participant between duplicate panel members in the same unit of measurement once outliers have been removed. (See 'Observation Details')

9: CMVDNA18C1-02 - CMVDNA17C2-02: Your Variation N/A (Copies/ml): Overall Mean Variation 0.033: Overall SD 0.302. 10: CMVDNA18C2-02 - CMVDNA18C1-02: Your Variation N/A (Copies/ml): Overall Mean Variation 0.012: Overall SD 0.289.

Previous and current observations are plotted on the chart as the number of standard deviations your variation was from the mean variation for all participants who submitted corresponding results in the same unitage.

Any reported variation greater than ±3 SD will not be shown on the graph, but your variation value will be provided in red in the Observation Details. When "N/A" is displayed for an observation, either no valid quantitative results were provided or there was a change in reported unitage

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



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Laboratory DE182

My Workflow Details

The details of the workflow(s) used to submit your results for this challenge.

Name	CMV quantitativ (v3)
Description	RealLine Extraction 100 mit anschließender Detection CMV quantitativ
Targets	V cytomegalovirus
Assays	 Extraction - Manual Extraction Process Commercial Kit Manufacturer: BIORON Diagnostics GmbH Kit Type: RealLine Extraction 100 REF VBC8896 Amplification - DNA Technology - DTlite Real-Time PCR System Commercial Kit Manufacturer: BIORON Diagnostics GmbH Kit Type: RealLine CMV quantitativ REF VBD1598 Kit Version: Str Format

Educational Panel Members Results

Sample Code	Unitage	EQA Assessment Group Consensus [1]			tive Result	Qualitative Result			
		Croup comoundad		Your Result	Estimation Score ^[4]	Percentage Correct (All)	Your Result	Detection Score ^[7]	
CMV DNA 18C2-01	Copies/ml	2.405	0.321	2.683	0	96.4	Positive	0	
CMV DNA 18C2-05	Copies/ml	2.757	0.331	2.816	0	99.3	Positive	0	

All quantitative values above expressed in Log₁₀ Copies/ml.

- [1] EQA Assessment Group Consensus: The mean value for all results within your EQA assessment group.
- [2] SD: The standard deviation for results from your EQA assessment group.
- [3] Your Quantitative Result: The quantitative result you returned for each sample within this EQA challenge. LOD/NR (limit of detection or not reported).
- [4] **Estimation Score:** Your estimation (quantitative) scores are calculated based on your variation from the consensus for your EQA assessment group. With 0 (zero) scored if the quantitative value you reported is within one standard deviation (SD) from your EQA assessment group consensus, 1 (one) if your quantitative value is between one and two SDs, 2 (two) if your quantitative value is within two and three SDs and 3 (three) if your quantitative value is more than three SDs from the mean of your EQA assessment group.
- [5] Percentage Correct (All): Percentage of datasets (%) reporting the correct qualitative results for each panel member.
- [6] Your Qualitative Result: The qualitative result you reported for each sample within this EQA challenge / distribution.
- [7] **Detection Score:** Your detection (qualitative) scores are based on the assigned detection frequency of each panel members, where 0 (zero) is "highly satisfactory" and 3 (three) is "highly unsatisfactory". Scores are provided for individual panel members.

For further details please refer to the current participant manual.

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMV DNA 18 Challenge:

Analysis Type:
Qualitative and Quantitative

Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

Further Programme Details

Number of Participants	173
Number of Countries	34
Number of Respondents	160
Number of Datasets Submitted	183
Quantitative Results Returned (All)	159 (86.9%)
- Quantitative Results Returned (IU/ml)	73 (45.9%)
- Quantitative Results Returned (Copies/ml)	86 (54.1%)
Qualitative Results Returned	139 (76.0%)

EQA Programme Aims

To assess the proficiency of laboratories in the detection and quantitation of human cytomegalovirus (CMV).

Feedback and Enquiries

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

Any queries about this report should be addressed to the QCMD Neutral Office (neutraloffice@qcmd.org).

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

C2

Analysis Type:
Qualitative and Quantitative

Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

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

Additional Core Samples Information

The following section has been categorised as shown below:

Core ► Quantitative ► Copies/ml, IU/ml ► Qualitative

Individual Panel Member Analysis (Quantitative)

Quantitative 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. The principal level of assessment is at the individual method level which is defined based on your reported "amplification/detection method" and other laboratories using the same or similar amplification/detection methods.

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 reported results using the same unit of measurement (i.e. Copies/ml or IU/ml).

The results below provide a breakdown of participant reported values on each of the panel members within this EQA challenge / distribution. Your result for each panel member is indicated by "your value". You can compare your value to the "mean" within your EQA assessment group and the overall consensus for each sample within this EQA challenge / distribution.

Key



QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMV DNA 18 Challenge:

C2

Analysis Type:
Qualitative and Quantitative

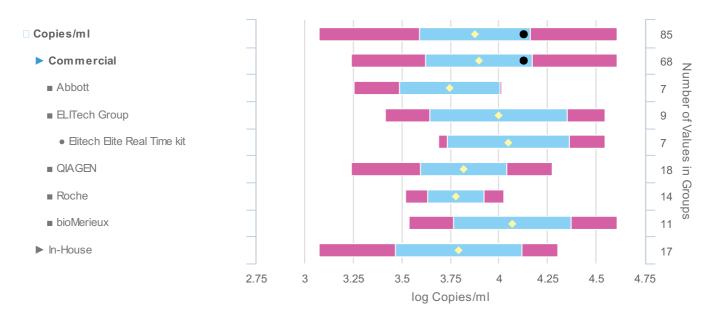
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-02 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
CMV DNA 18C2-02	CMV (AD169)	Plasma	DS1_1	Frequently Detected	CORE	3.874	85	3.072 - 4.606



Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), BIORON (n=1), BIORON - BIORON RealLine (n=1), ELITech Group - Elitech Alert Real Time Q-PCR (n=2), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), Mobius (n=1), Mobius - Mobius PCR Reagents (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=7), QIAGEN - QIAGEN Artus Real Time (n=18), Roche - Roche Cobas TaqMan (n=14), bioMerieux - bioMerieux R-gene Quant Kit (n=11), In-House - Real-time In-House PCR (n=17)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

C2

Analysis Type:
Qualitative and Quantitative

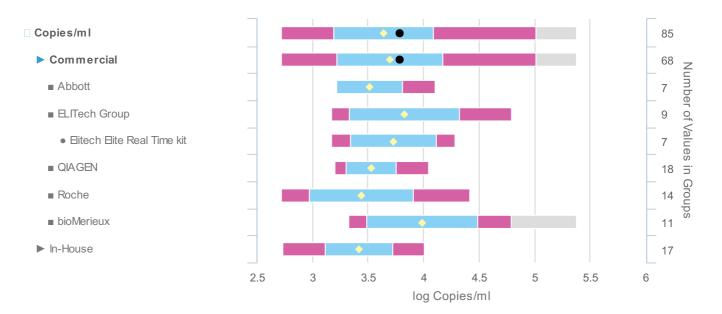
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-04 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
CMV DNA 18C2-04	CMV (Merlin)	Plasma	-	Frequently Detected	CORE	3.636	85	2.715 - 5.373



Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), BIORON (n=1), BIORON - BIORON RealLine (n=1), ELITech Group - Elitech Alert Real Time Q-PCR (n=2), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), Mobius (n=1), Mobius - Mobius PCR Reagents (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=7), QIAGEN - QIAGEN Artus Real Time (n=18), Roche - Roche Cobas TaqMan (n=14), bioMerieux - bioMerieux R-gene Quant Kit (n=11), In-House - Real-time In-House PCR (n=17)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

C2

Analysis Type:
Qualitative and Quantitative

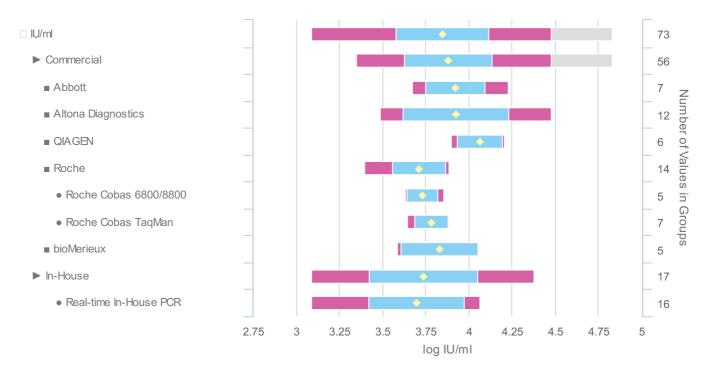
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-02 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sam ple Status	Consens (IU/ml)	us	Range
						(Log ₁₀)	(n)	
CMV DNA 18C2-02	CMV (AD169)	Plasma	DS1_1	Frequently Detected	CORE	3.844	73	3.086 - 4.827



Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=2), ELITech Group - Elitech Elite Real Time kit (n=2), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Roche - Roche Cobas 4800 (n=2), Siemens (n=2), Siemens - Siemens Versant (n=2), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=7), Altona Diagnostics - Altona Diagnostics Real Star (n=12), QIAGEN - QIAGEN Artus Real Time (n=6), bioMerieux - bioMerieux R-gene Quant Kit (n=5)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

C2

Analysis Type:
Qualitative and Quantitative

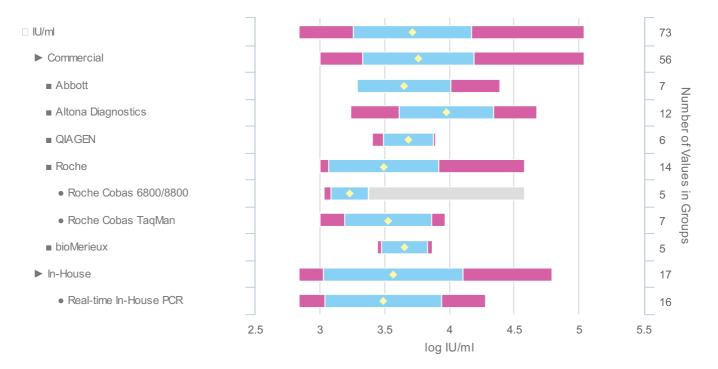
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-04 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
CMV DNA 18C2-04	CMV (Merlin)	Plasma	-	Frequently Detected	CORE	3.712	73	2.836 - 5.037



Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=2), ELITech Group - Elitech Elite Real Time kit (n=2), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Roche - Roche Cobas 4800 (n=2), Siemens (n=2), Siemens - Siemens Versant (n=2), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=7), Altona Diagnostics - Altona Diagnostics Real Star (n=12), QIAGEN - QIAGEN Artus Real Time (n=6), bioMerieux - bioMerieux R-gene Quant Kit (n=5)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



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Ref Code: CMVDNA18 Challenge:

C2

Analysis Type:
Qualitative and Quantitative

Dataset: 248432

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Laboratory DE182

Individual Panel Member Analysis (Qualitative)

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. The principal level of assessment is at the individual method level which is defined based on your reported "amplification/detection method" and other laboratories using the same or similar amplification/detection methods.

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 by participants on each of the panel members within this EQA challenge / distribution is provided below. You can compare your results to those within your EQA assessment group and those obtained within other EQA assessment groups or to the overall consensus for each sample within this EQA challenge / distribution.

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMV DNA 18 Challenge:

Analysis Type:
Qualitative and Quantitative

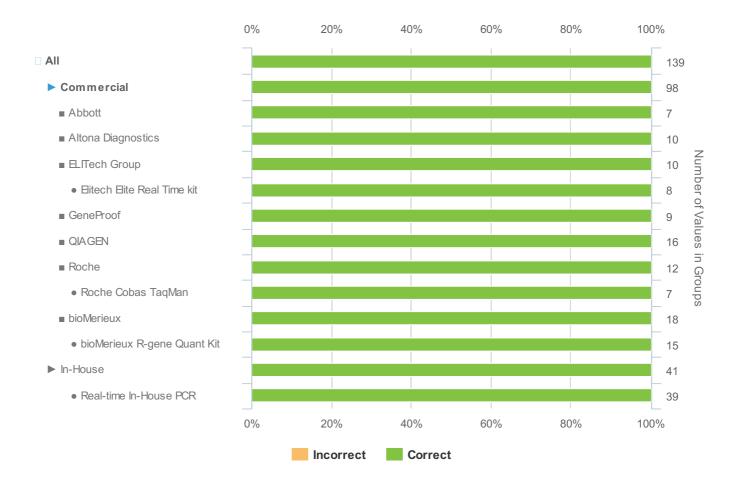
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage (All)	Correct
						(%)	(n)
CMV DNA 18C2-02	CMV (AD169)	Plasma	DS1_1	Frequently Detected	CORE	100.0	139



Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks Anatolia Geneworks Bosphore (n=1), BIORON (n=1), BIORON - BIORON RealLine (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group - Elitech Alert Real Time Q-PCR (n=2), Mobius (n=1), Mobius - Mobius PCR Reagents (n=1), Roche - Roche Cobas 4800 (n=1), Roche - Roche Cobas 6800/8800 (n=4), Sacace (n=3), Sacace - Sacace Real TM (n=3), Seegene (n=1), Seegene - Seegene Seeplex (n=1), Siemens (n=1), Siemens - Siemens Versant (n=1), TIB MOLBIOL (n=2), TIB MOLBIOL - TIB MOLBIOL LightMix (n=2), bioMerieux - BioFire FilmArray (n=3), In-House - Conventional In-House PCR (n=2)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

Analysis Type:
Qualitative and Quantitative

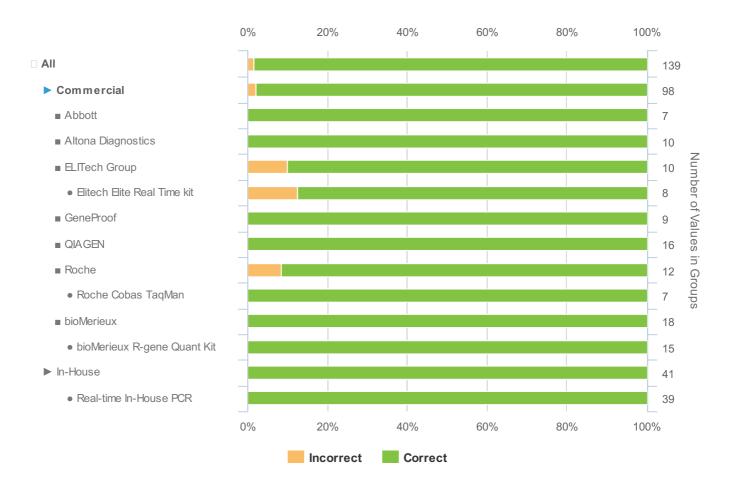
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships		Sample Status	Percentage (All)	e Correct
						(%)	(n)
CMV DNA 18C2-03	EBV	Plasma	-	Negative	CORE	98.6	139



Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BIORON (n=1), BIORON - BIORON RealLine (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group - Elitech Alert Real Time Q-PCR (n=2), Mobius (n=1), Mobius - Mobius PCR Reagents (n=1), Roche - Roche Cobas 4800 (n=1), Roche - Roche Cobas 6800/8800 (n=4), Sacace (n=3), Sacace - Sacace Real TM (n=3), Seegene (n=1), Seegene - Seegene Seeplex (n=1), Siemens (n=1), Siemens - Siemens Versant (n=1), TIB MOLBIOL (n=2), TIB MOLBIOL - TIB MOLBIOL LightMix (n=2), bioMerieux - BioFire FilmArray (n=3), In-House - Conventional In-House PCR (n=2)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

Analysis Type:
Qualitative and Quantitative

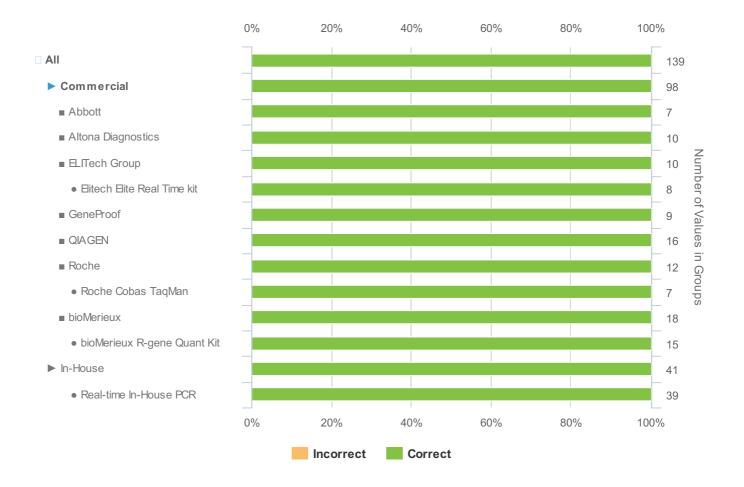
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-04 - Qualitative Results Breakdown

Sa	ımple Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage (All)	age Correct	
							(%)	(n)	
CN	//V DNA 18C2-04	CMV (Merlin)	Plasma	-	Frequently Detected	CORE	100.0	139	



Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks Anatolia Geneworks Bosphore (n=1), BIORON (n=1), BIORON - BIORON RealLine (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group - Elitech Alert Real Time Q-PCR (n=2), Mobius (n=1), Mobius - Mobius PCR Reagents (n=1), Roche - Roche Cobas 4800 (n=1), Roche - Roche Cobas 6800/8800 (n=4), Sacace (n=3), Sacace - Sacace Real TM (n=3), Seegene (n=1), Seegene - Seegene Seeplex (n=1), Siemens (n=1), Siemens - Siemens Versant (n=1), TIB MOLBIOL (n=2), TIB MOLBIOL - TIB MOLBIOL LightMix (n=2), bioMerieux - BioFire FilmArray (n=3), In-House - Conventional In-House PCR (n=2)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

C2

Analysis Type:Qualitative and Quantitative

Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

Additional Educational Samples Information

The following section has been categorised as shown below:

Educational ▶ Quantitative ▶ Copies/ml, IU/ml ▶ Qualitative

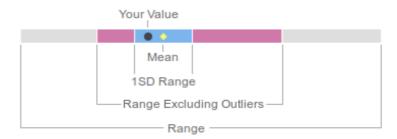
Individual Panel Member Analysis (Quantitative)

Quantitative 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. The principal level of assessment is at the individual method level which is defined based on your reported "amplification/detection method" and other laboratories using the same or similar amplification/detection methods.

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 reported results using the same unit of measurement (i.e. Copies/mI or IU/mI).

The results below provide a breakdown of participant reported values on each of the panel members within this EQA challenge / distribution. Your result for each panel member is indicated by "your value". You can compare your value to the "mean" within your EQA assessment group and the overall consensus for each sample within this EQA challenge / distribution.

Key



QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMV DNA 18 Challenge:

C2

Analysis Type:
Qualitative and Quantitative

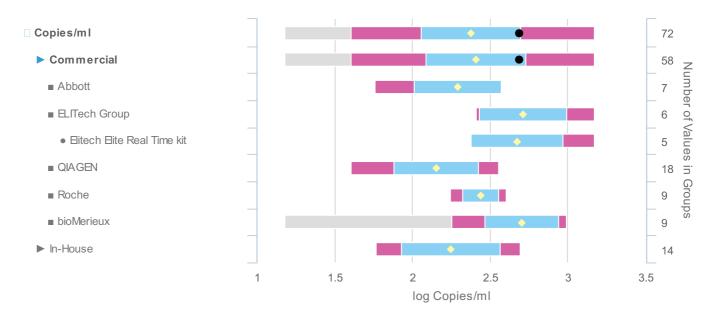
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-01 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensu (Copies/m		Range
						(Log ₁₀)	(n)	
CMV DNA 18C2-01	CMV (AD169)	Plasma	DS1_2	Frequently Detected	EDUCATIONAL	2.373	72	1.176 - 3.167



Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), BIORON (n=1), BIORON - BIORON RealLine (n=1), ELITech Group - Elitech Alert Real Time Q-PCR (n=1), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), Mobius (n=1), Mobius - Mobius PCR Reagents (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=7), QIAGEN - QIAGEN Artus Real Time (n=18), Roche - Roche Cobas TaqMan (n=9), bioMerieux - bioMerieux R-gene Quant Kit (n=9), In-House - Real-time In-House PCR (n=14)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMV DNA 18 Challenge:

C2

Analysis Type:
Qualitative and Quantitative

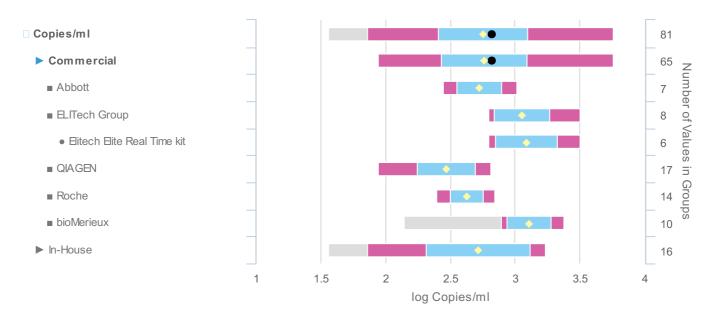
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-05 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensu (Copies/m		Range
						(Log ₁₀)	(n)	
CMV DNA 18C2-05	CMV (Clinical)	Plasma	-	Frequently Detected	EDUCATIONAL	2.749	81	1.556 - 3.754



Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), BIORON (n=1), BIORON - BIORON RealLine (n=1), ELITech Group - Elitech Alert Real Time Q-PCR (n=2), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), Mobius (n=1), Mobius - Mobius PCR Reagents (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=7), QIAGEN - QIAGEN Artus Real Time (n=17), Roche - Roche Cobas TaqMan (n=14), bioMerieux - bioMerieux R-gene Quant Kit (n=10), In-House - Real-time In-House PCR (n=16)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18

Challenge:

Analysis Type:
Qualitative and Quantitative

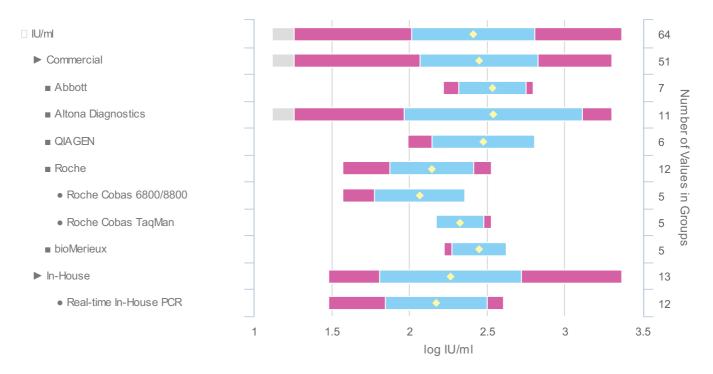
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-01 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consens (IU/ml)			_	Range
						(Log ₁₀)	(n)			
CMV DNA 18C2-01	CMV (AD169)	Plasma	DS1_2	Frequently Detected	EDUCATIONAL	2.407	64	1.114 - 3.363		



Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Roche - Roche Cobas 4800 (n=2), Siemens (n=2), Siemens - Siemens Versant (n=2), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=7), Altona Diagnostics - Altona Diagnostics Real Star (n=11), QIAGEN - QIAGEN Artus Real Time (n=6), bioMerieux - bioMerieux R-gene Quant Kit (n=5)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18

Challenge:

Analysis Type:
Qualitative and Quantitative

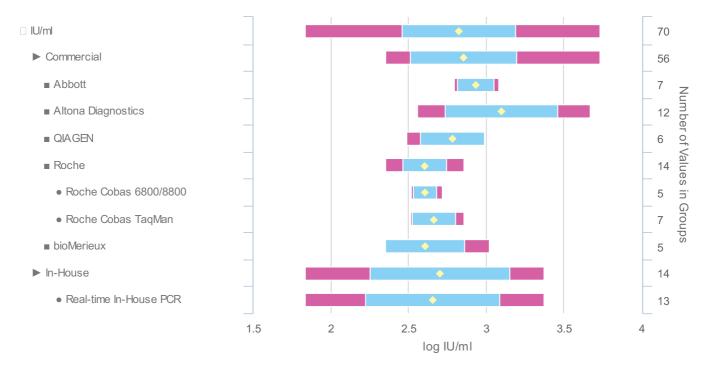
Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

CMVDNA18C2-05 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consens (IU/ml)	sus	Range	
						(Log ₁₀)	(n)		
CMV DNA 18C2-05	CMV (Clinical)	Plasma	-	Frequently Detected	EDUCATIONAL	2.821	70	1.833 - 3.729	



Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=2), ELITech Group - Elitech Elite Real Time kit (n=2), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Roche - Roche Cobas 4800 (n=2), Siemens (n=2), Siemens - Siemens Versant (n=2), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Real Time PCR (n=7), Altona Diagnostics - Altona Diagnostics Real Star (n=12), QIAGEN - QIAGEN Artus Real Time (n=6), bioMerieux - bioMerieux R-gene Quant Kit (n=5)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

C2

Analysis Type:
Qualitative and Quantitative

Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

Individual Panel Member Analysis (Qualitative)

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. The principal level of assessment is at the individual method level which is defined based on your reported "amplification/detection method" and other laboratories using the same or similar amplification/detection methods.

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 by participants on each of the panel members within this EQA challenge / distribution is provided below. You can compare your results to those within your EQA assessment group and those obtained within other EQA assessment groups or to the overall consensus for each sample within this EQA challenge / distribution.

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

Analysis Type:
Qualitative and Quantitative

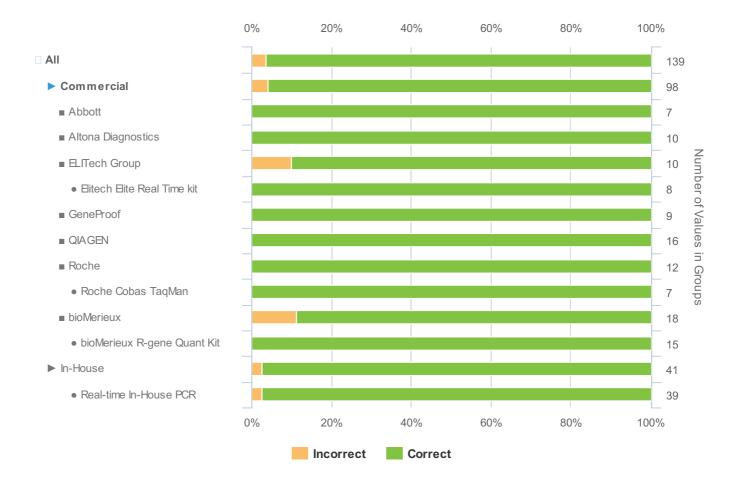
Dataset: 248432

Report UID: 4254/248432/1680

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CMVDNA18C2-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
CMV DNA 18C2-01	CMV (AD169)	Plasma	DS1_2	Frequently Detected	EDUCATIONAL	96.4	139



Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks Anatolia Geneworks Bosphore (n=1), BIORON (n=1), BIORON - BIORON RealLine (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group - Elitech Alert Real Time Q-PCR (n=2), Mobius (n=1), Mobius - Mobius PCR Reagents (n=1), Roche - Roche Cobas 4800 (n=1), Roche - Roche Cobas 6800/8800 (n=4), Sacace (n=3), Sacace - Sacace Real TM (n=3), Seegene (n=1), Seegene - Seegene Seeplex (n=1), Siemens (n=1), Siemens - Siemens Versant (n=1), TIB MOLBIOL (n=2), TIB MOLBIOL - TIB MOLBIOL LightMix (n=2), bioMerieux - BioFire FilmArray (n=3), In-House - Conventional In-House PCR (n=2)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

Analysis Type:
Qualitative and Quantitative

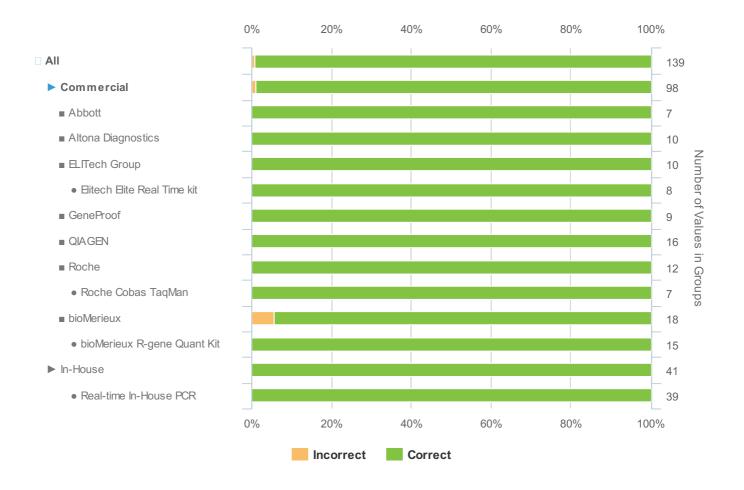
Dataset: 248432

Report UID: 4254/248432/1680

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CMVDNA18C2-05 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentag Correct (A	•
						(%)	(n)
CMV DNA 18C2-05	CMV (Clinical)	Plasma	-	Frequently Detected	EDUCATIONAL	99.3	139



Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks Anatolia Geneworks Bosphore (n=1), BIORON (n=1), BIORON - BIORON RealLine (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group - Elitech Alert Real Time Q-PCR (n=2), Mobius (n=1), Mobius - Mobius PCR Reagents (n=1), Roche - Roche Cobas 4800 (n=1), Roche - Roche Cobas 6800/8800 (n=4), Sacace (n=3), Sacace - Sacace Real TM (n=3), Seegene (n=1), Seegene - Seegene Seeplex (n=1), Siemens (n=1), Siemens - Siemens Versant (n=1), TIB MOLBIOL (n=2), TIB MOLBIOL - TIB MOLBIOL LightMix (n=2), bioMerieux - BioFire FilmArray (n=3), In-House - Conventional In-House PCR (n=2)

QCMD 2018 Human Cytomegalovirus DNA EQA Programme



Catalogue Code: QAV014120

Ref Code: CMVDNA18 Challenge:

C2

Analysis Type:Qualitative and Quantitative

Dataset: 248432

Report UID: 4254/248432/1680

Laboratory DE182

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