

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships ^[1]	Detection Frequency ^[2]	Sample Status ^[3]	Consensus (Copies/ml) ^[4]		Range ^[5]
						(Log ₁₀)	(n)	
EBVDNA18S-01	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	4.119	36	3.474 - 5.535
EBVDNA18S-02	Epstein-Barr virus	Plasma	D2, DS1_3	Frequently Detected	CORE	3.109	35	2.137 - 4.686
EBVDNA18S-03	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	4.118	36	2.801 - 5.422
EBVDNA18S-04	Epstein-Barr virus	Plasma	D2, DS1_3	Frequently Detected	CORE	3.172	35	2.290 - 4.753
EBVDNA18S-05	Epstein-Barr virus	Plasma	DS1_5	Detected	EDUCATIONAL	2.244	20	1.322 - 3.786
EBVDNA18S-06	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	4.121	36	2.583 - 5.500
EBVDNA18S-07	Epstein-Barr virus	Plasma	D3, DS1_4	Detected	EDUCATIONAL	2.505	24	1.204 - 3.800
EBVDNA18S-08	Epstein-Barr virus	Plasma	DS1_2	Frequently Detected	CORE	3.342	36	2.328 - 5.051
EBVDNA18S-09	Negative	Plasma	-	Negative	CORE	N/A	N/A	N/A
EBVDNA18S-10	Epstein-Barr virus	Plasma	D3, DS1_4	Detected	EDUCATIONAL	2.520	25	1.114 - 4.061

[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.


Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 <small>Quality Control for Molecular Diagnostics</small>		
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023	

Your Summary Results

Units	Copies/ml
EQA Assessment Group ^[1]	Commercial
Core Panel Detection (Qualitative) Score ^[2]	<input type="text" value="0"/>
Core Panel Estimation (Quantitative) Score ^[3]	<input type="text" value="0"/>

Core Panel Members Results

Sample Code	Unitage	EQA Assessment Group Consensus ^[4]	SD ^[5]	Quantitative Result		Qualitative Result		
				Your Result ^[6]	Estimation Score ^[7]	Percentage Correct (All) ^[8]	Your Result ^[9]	Detection Score ^[10]
EBVDNA18S-01	Copies/ml	4.126	0.377	4.369	<input type="text" value="0"/>	100.0	Positive	<input type="text" value="0"/>
EBVDNA18S-02	Copies/ml	3.040	0.474	3.270	<input type="text" value="0"/>	100.0	Positive	<input type="text" value="0"/>
EBVDNA18S-03	Copies/ml	4.081	0.460	4.330	<input type="text" value="0"/>	100.0	Positive	<input type="text" value="0"/>
EBVDNA18S-04	Copies/ml	3.110	0.484	3.379	<input type="text" value="0"/>	100.0	Positive	<input type="text" value="0"/>
EBVDNA18S-06	Copies/ml	4.089	0.504	4.290	<input type="text" value="0"/>	100.0	Positive	<input type="text" value="0"/>
EBVDNA18S-08	Copies/ml	3.341	0.453	3.553	<input type="text" value="0"/>	98.5	Positive	<input type="text" value="0"/>
EBVDNA18S-09	Copies/ml	N/A	-	LOD/NR	N/A	98.5	Negative	<input type="text" value="0"/>

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 QCMD <small>Quality Control for Molecular Diagnostics</small>	
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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.

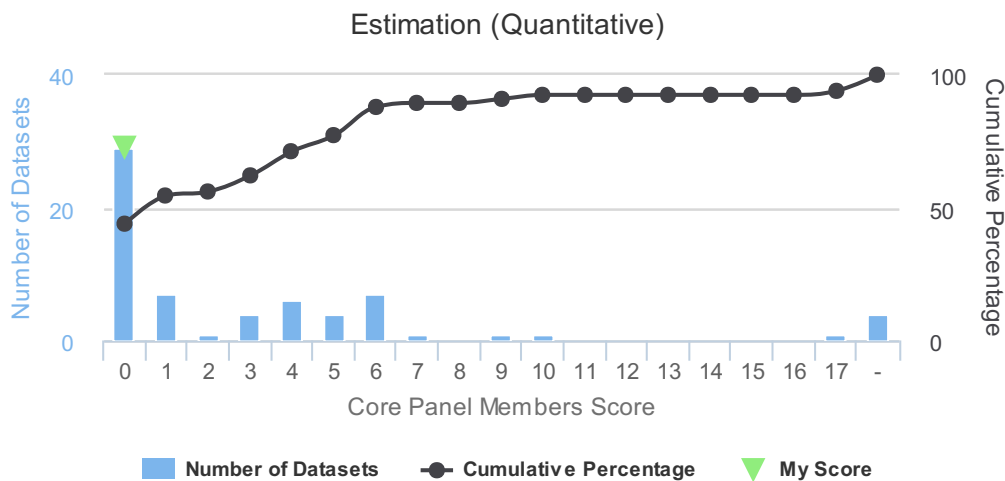
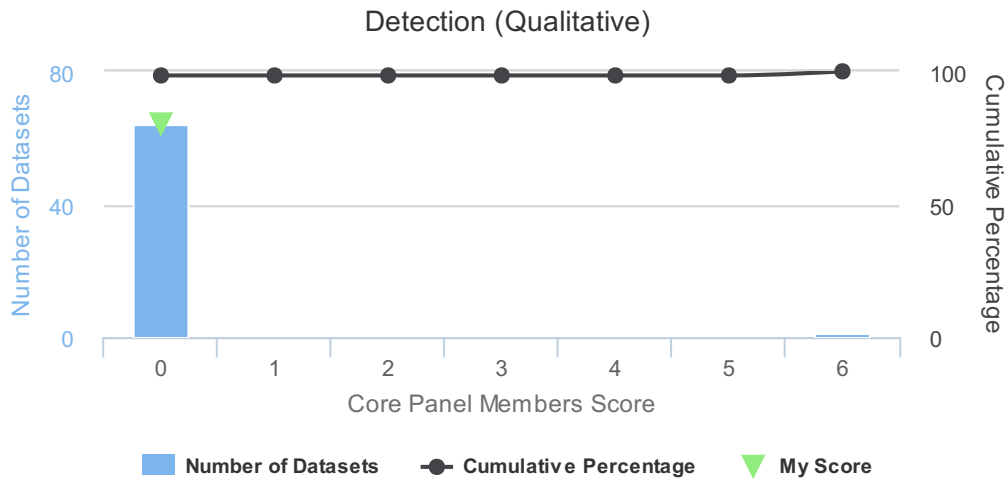
[9] **Your Qualitative Result:** The qualitative result you reported for each sample within this EQA challenge / distribution.

[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.

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 QCMD Quality Control for Molecular Diagnostics		
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023	


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”.

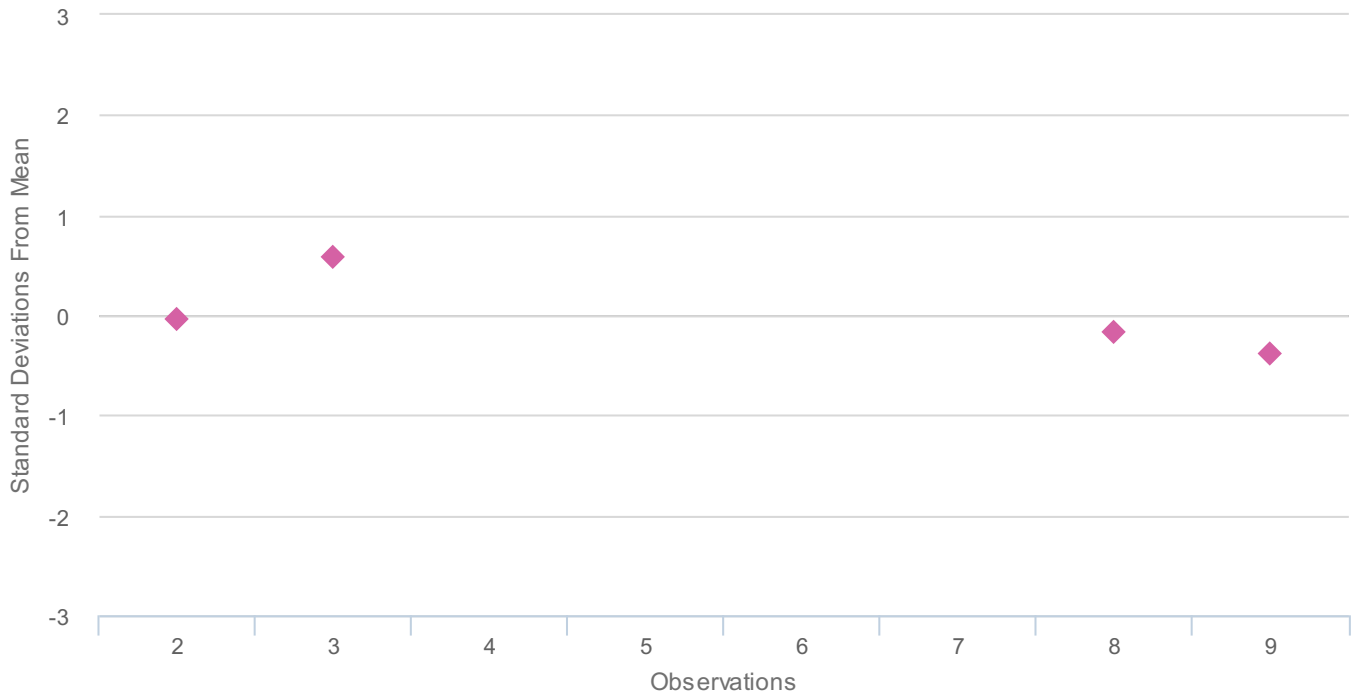
Core Panel Member Score Breakdown - Estimation: This figure gives you a breakdown of the quantitative estimation scores for all quantitative datasets returned within this EQA challenge / distribution independent of the EQA assessment group. Panel estimation scores are based on positive core panel members 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.

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 QCMD Quality Control for Molecular Diagnostics		
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023	

Duplicate Sample Performance Over Time

Series S1



Observation Details


- 2: EBVDNA16C1-01 - EBVDNA15C2-04: Your Variation 0.031 (Copies/ml); Overall Mean Variation 0.047; Overall SD 0.409.
- 3: EBVDNA16C2-04 - EBVDNA16C1-01: Your Variation 0.259 (Copies/ml); Overall Mean Variation 0.038; Overall SD 0.380.
- 4: EBVDNA17S-01 - EBVDNA16C2-04: Your Variation N/A (Copies/ml); Overall Mean Variation -0.135; Overall SD 0.415.
- 5: EBVDNA17S-02 - EBVDNA17S-01: Your Variation N/A (Copies/ml); Overall Mean Variation -0.000; Overall SD 0.226.
- 6: EBVDNA17S-07 - EBVDNA17S-02: Your Variation N/A (Copies/ml); Overall Mean Variation 0.000; Overall SD 0.376.
- 7: EBVDNA18S-01 - EBVDNA17S-07: Your Variation N/A (Copies/ml); Overall Mean Variation 0.084; Overall SD 0.361.
- 8: EBVDNA18S-03 - EBVDNA18S-01: Your Variation -0.039 (Copies/ml); Overall Mean Variation -0.020; Overall SD 0.115.
- 9: EBVDNA18S-06 - EBVDNA18S-03: Your Variation -0.040 (Copies/ml); Overall Mean Variation 0.003; Overall SD 0.112.

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')




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.

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 <small>Quality Control for Molecular Diagnostics</small>		
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023	

My Workflow Details

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

Name	GeneProof Epstein-Barr Virus (EBV) PCR Kit (v3)
Description	
Targets	 Epstein-Barr virus
Assays	 <i>Extraction</i> - Manual Extraction Process <ul style="list-style-type: none"> Commercial <ul style="list-style-type: none"> Kit Manufacturer: <i>GeneProof</i> Kit Type: <i>PathogenFree DNA Isolation Kit</i>  <i>Amplification</i> - GeneProof - croBEE Real-Time PCR System <ul style="list-style-type: none"> Commercial <ul style="list-style-type: none"> Kit Manufacturer: <i>GeneProof</i> Kit Type: <i>GeneProof Epstein-Barr Virus (EBV) PCR kit</i> Kit Version: <i>ISEX</i>

Educational Panel Members Results

Sample Code	Unitage	EQA Assessment Group Consensus ^[1]	SD ^[2]	Quantitative Result		Qualitative Result		
				Your Result ^[3]	Estimation Score ^[4]	Percentage Correct (All) ^[5]	Your Result ^[6]	Detection Score ^[7]
EBVDNA18S-05	Copies/ml	2.130	0.560	1.623	<input type="text" value="0"/>	73.8	Positive	<input type="text" value="0"/>
EBVDNA18S-07	Copies/ml	2.487	0.606	2.324	<input type="text" value="0"/>	92.3	Positive	<input type="text" value="0"/>
EBVDNA18S-10	Copies/ml	2.401	0.607	2.682	<input type="text" value="0"/>	89.2	Positive	<input type="text" value="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.

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 QCMD <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023

Further Programme Details

Number of Participants	76
Number of Countries	25
Number of Respondents	69
Number of Datasets Submitted	81
Quantitative Results Returned (All)	66 (81.5%)
- Quantitative Results Returned (Copies/ml)	36 (54.5%)
- Quantitative Results Returned (IU/ml)	30 (45.5%)
Qualitative Results Returned	65 (80.2%)


EQA Programme Aims

To assess the proficiency of laboratories in the detection and quantitation of Epstein-Barr virus (EBV).

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).

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 QCMD <small>Quality Control for Molecular Diagnostics</small>	
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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

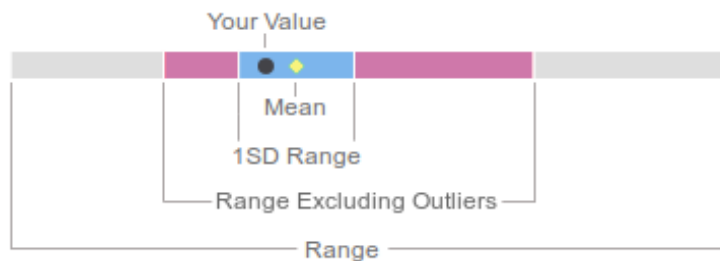
Individual Panel Member Analysis (Quantitative)

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.

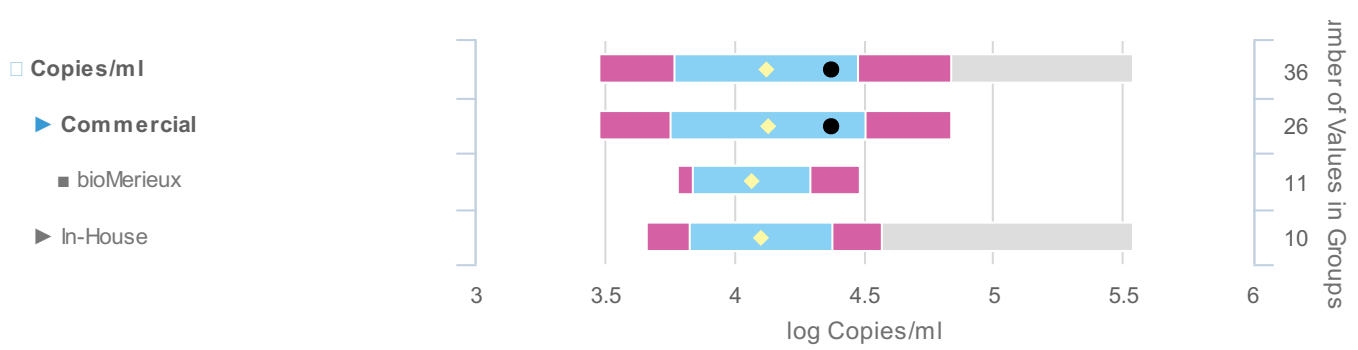
Key



Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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EBVDNA18S-01 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-01	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	4.119	36	3.474 - 5.535

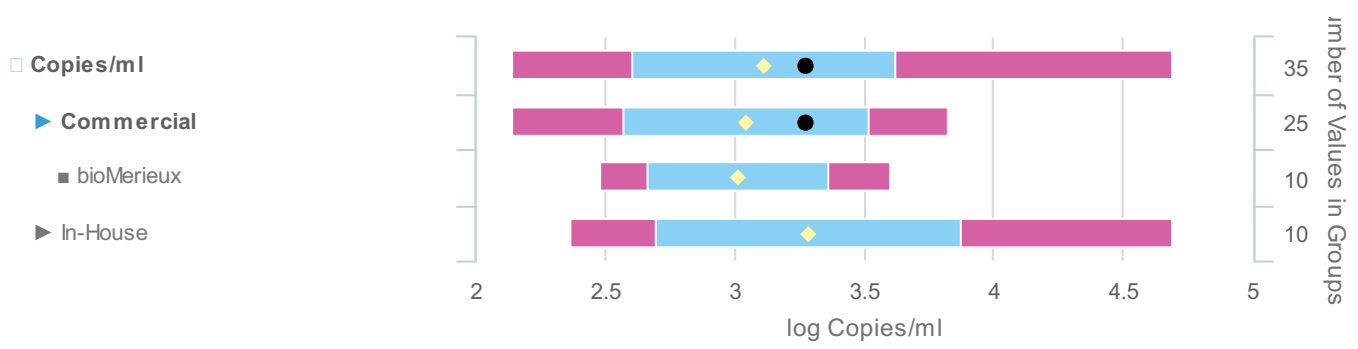


Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=1), Roche - Roche LightCycler (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1)

Groups Rolled Up: bioMerieux - bioMerieux R-gene Quant Kit (n=11), In-House - Real-time In-House PCR (n=10)

EBVDNA18S-02 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-02	Epstein-Barr virus	Plasma	D2, DS1_3	Frequently Detected	CORE	3.109	35	2.137 - 4.686



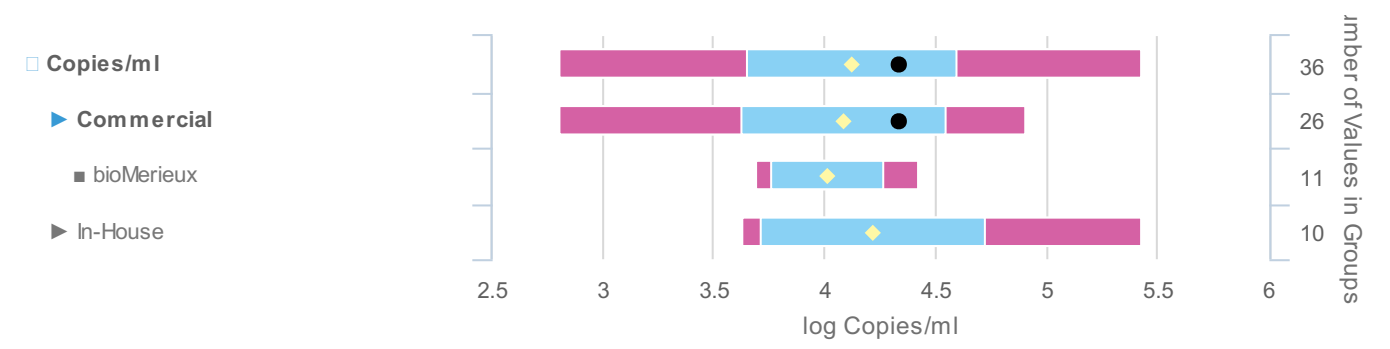
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=1), Roche - Roche LightCycler (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1)

Groups Rolled Up: bioMerieux - bioMerieux R-gene Quant Kit (n=10), In-House - Real-time In-House PCR (n=10)

EBVDNA18S-03 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-03	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	4.118	36	2.801 - 5.422



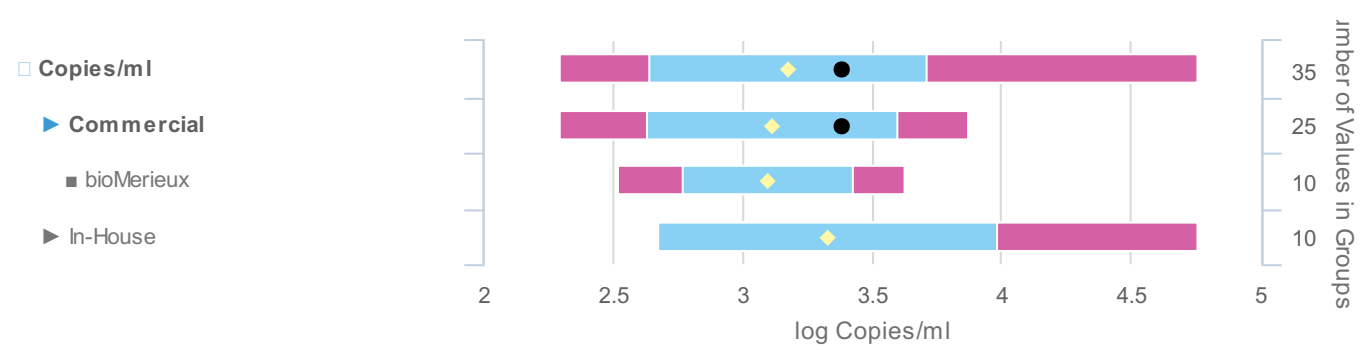
Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=1), Roche - Roche LightCycler (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1)

Groups Rolled Up: bioMerieux - bioMerieux R-gene Quant Kit (n=11), In-House - Real-time In-House PCR (n=10)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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EBVDNA18S-04 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-04	Epstein-Barr virus	Plasma	D2, DS1_3	Frequently Detected	CORE	3.172	35	2.290 - 4.753

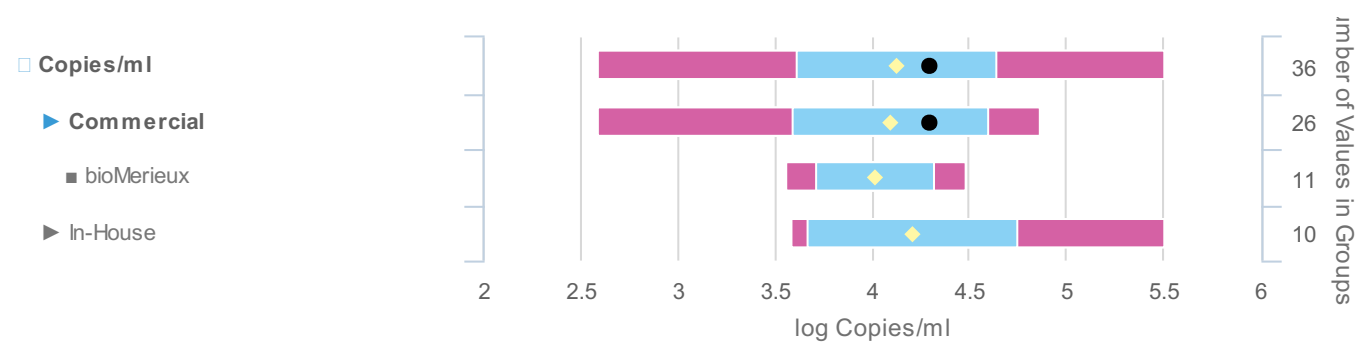


Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=1), Roche - Roche LightCycler (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1)

Groups Rolled Up: bioMerieux - bioMerieux R-gene Quant Kit (n=10), In-House - Real-time In-House PCR (n=10)

EBVDNA18S-06 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-06	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	4.121	36	2.583 - 5.500



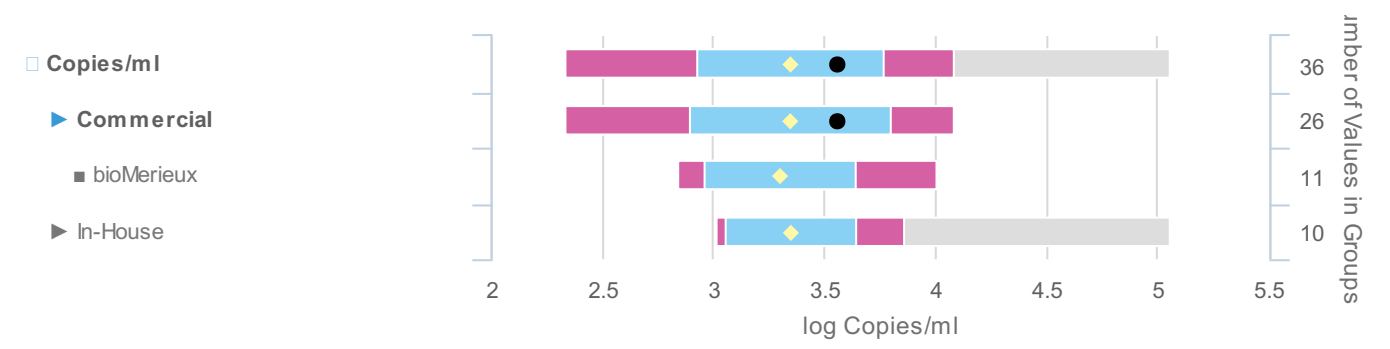
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=1), Roche - Roche LightCycler (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1)

Groups Rolled Up: bioMerieux - bioMerieux R-gene Quant Kit (n=11), In-House - Real-time In-House PCR (n=10)

EBVDNA18S-08 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-08	Epstein-Barr virus	Plasma	DS1_2	Frequently Detected	CORE	3.342	36	2.328 - 5.051



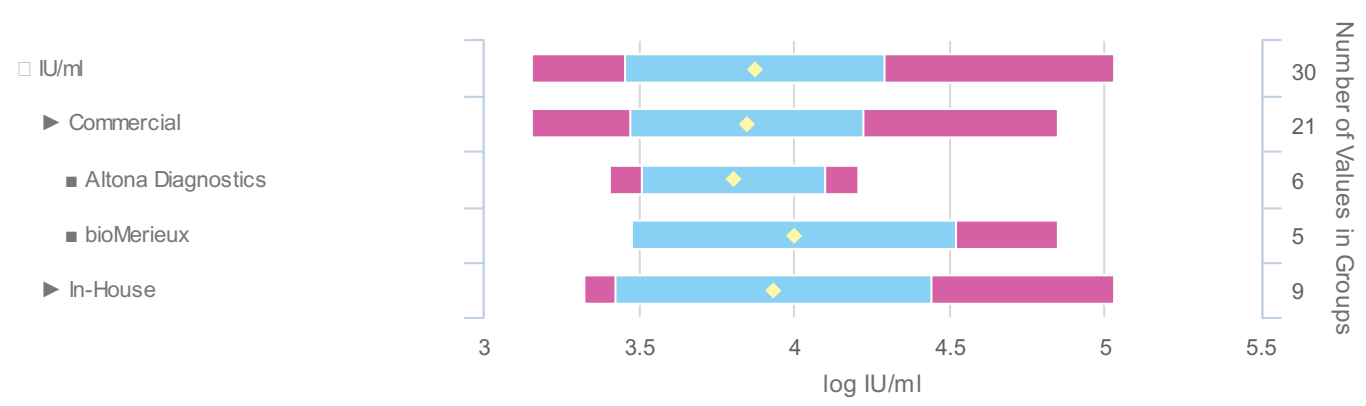
Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=4), GeneProof - GeneProof Real Time PCR kit (n=4), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=1), Roche - Roche LightCycler (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1)

Groups Rolled Up: bioMerieux - bioMerieux R-gene Quant Kit (n=11), In-House - Real-time In-House PCR (n=10)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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EBVDNA18S-01 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-01	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	3.870	30	3.152 - 5.026



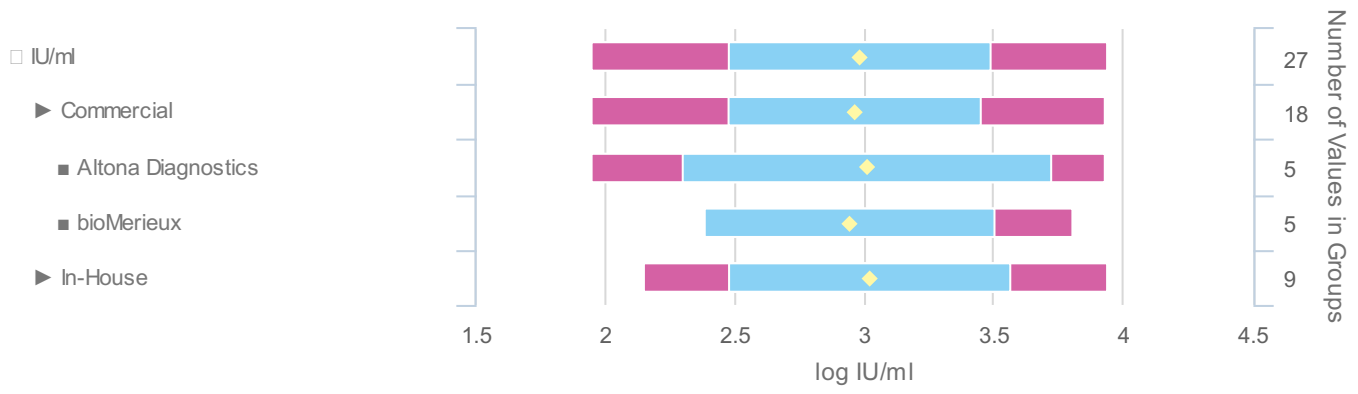
Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), QIAGEN (n=2), QIAGEN - QIAGEN Artus Real Time (n=2), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD Real Time PCR (n=2)

Groups Rolled Up: Altona Diagnostics - Altona Diagnostics RealStar (n=6), bioMerieux - bioMerieux R-gene Quant Kit (n=5), In-House - Real-time In-House PCR (n=9)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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EBVDNA18S-02 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-02	Epstein-Barr virus	Plasma	D2, DS1_3	Frequently Detected	CORE	2.979	27	1.944 - 3.935



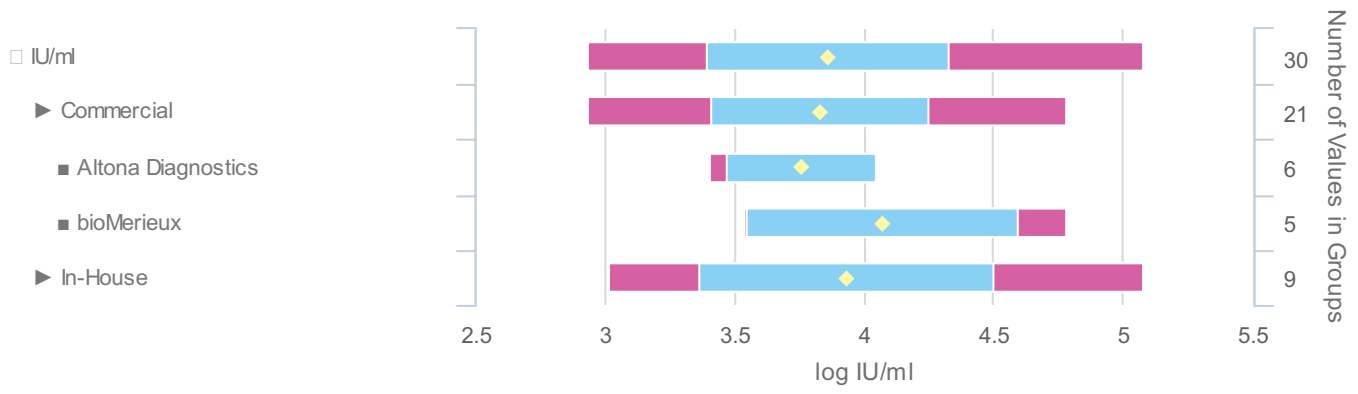
Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), QIAGEN (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD Real Time PCR (n=2)

Groups Rolled Up: Altona Diagnostics - Altona Diagnostics RealStar (n=5), bioMerieux - bioMerieux R-gene Quant Kit (n=5), In-House - Real-time In-House PCR (n=9)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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EBVDNA18S-03 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-03	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	3.856	30	2.930 - 5.074



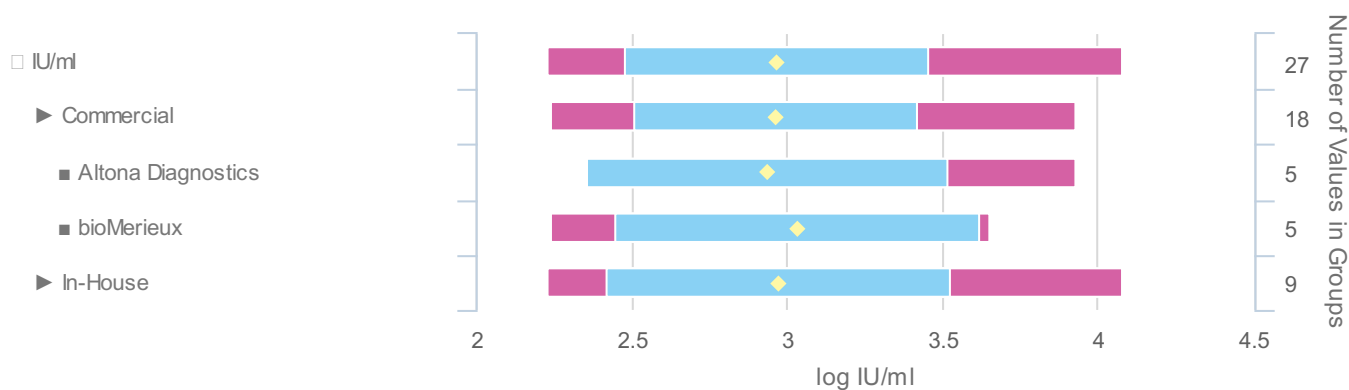
Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), QIAGEN (n=2), QIAGEN - QIAGEN Artus Real Time (n=2), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD Real Time PCR (n=2)

Groups Rolled Up: Altona Diagnostics - Altona Diagnostics RealStar (n=6), bioMerieux - bioMerieux R-gene Quant Kit (n=5), In-House - Real-time In-House PCR (n=9)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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EBVDNA18S-04 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-04	Epstein-Barr virus	Plasma	D2, DS1_3	Frequently Detected	CORE	2.962	27	2.225 - 4.074



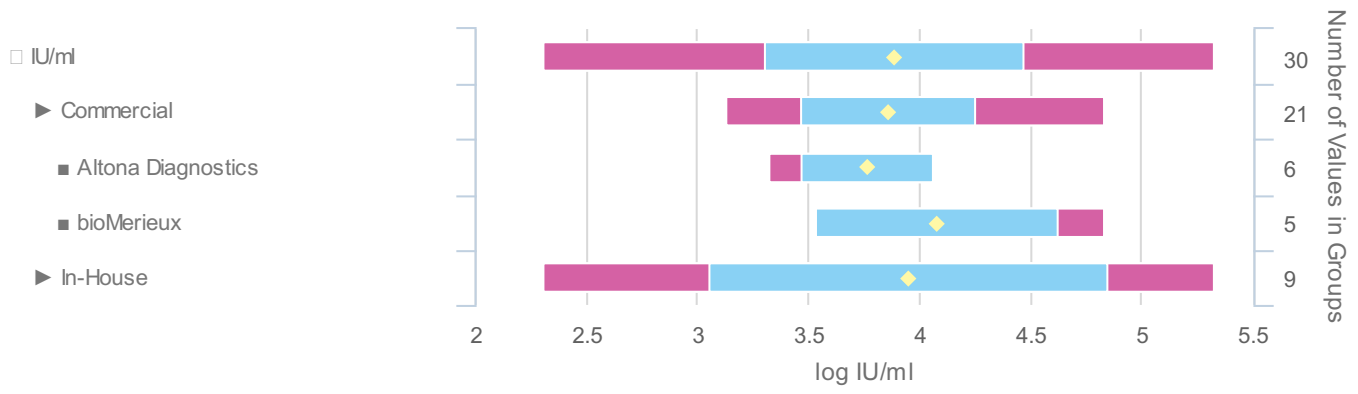
Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), QIAGEN (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD Real Time PCR (n=2)

Groups Rolled Up: Altona Diagnostics - Altona Diagnostics RealStar (n=5), bioMerieux - bioMerieux R-gene Quant Kit (n=5), In-House - Real-time In-House PCR (n=9)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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EBVDNA18S-06 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-06	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	3.881	30	2.301 - 5.322



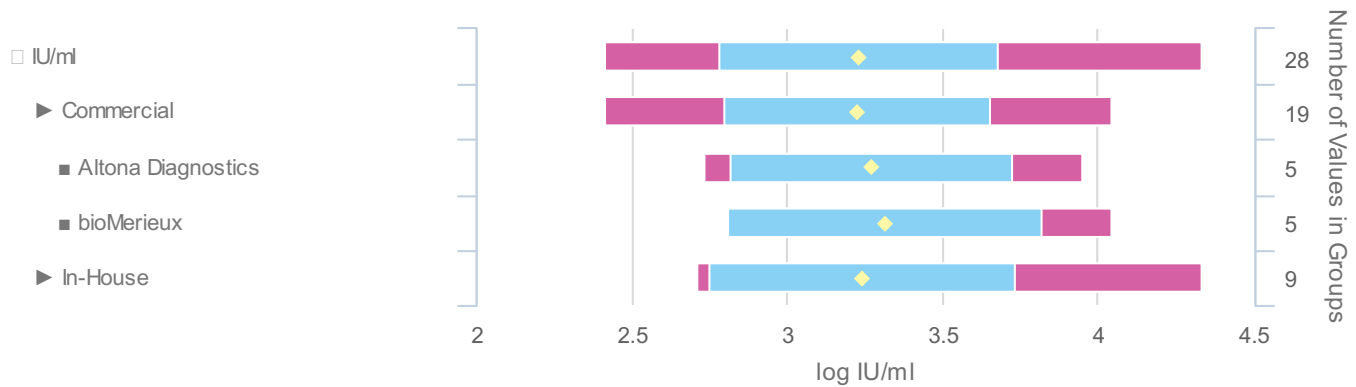
Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), QIAGEN (n=2), QIAGEN - QIAGEN Artus Real Time (n=2), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD Real Time PCR (n=2)

Groups Rolled Up: Altona Diagnostics - Altona Diagnostics RealStar (n=6), bioMerieux - bioMerieux R-gene Quant Kit (n=5), In-House - Real-time In-House PCR (n=9)

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 Quality Control for Molecular Diagnostics		
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023	

EBVDNA18S-08 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-08	Epstein-Barr virus	Plasma	DS1_2	Frequently Detected	CORE	3.226	28	2.410 - 4.330



Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), QIAGEN (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD Real Time PCR (n=2)


Groups Rolled Up: Altona Diagnostics - Altona Diagnostics RealStar (n=5), bioMerieux - bioMerieux R-gene Quant Kit (n=5), In-House - Real-time In-House PCR (n=9)

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.

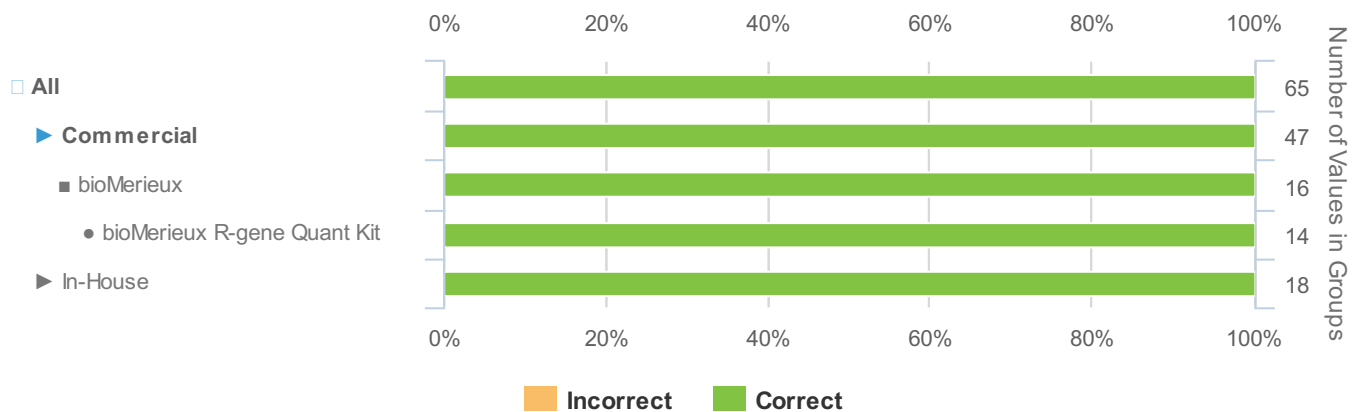
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or 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.

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 Quality Control for Molecular Diagnostics		
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023	

EBVDNA18S-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-01	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	100.0	65



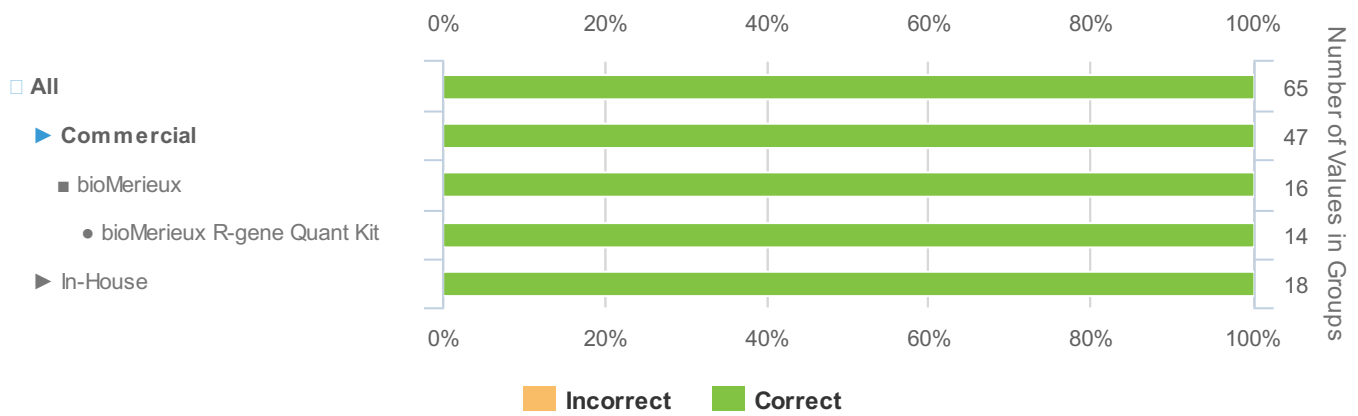
Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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EBVDNA18S-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-02	Epstein-Barr virus	Plasma	D2, DS1_3	Frequently Detected	CORE	100.0	65



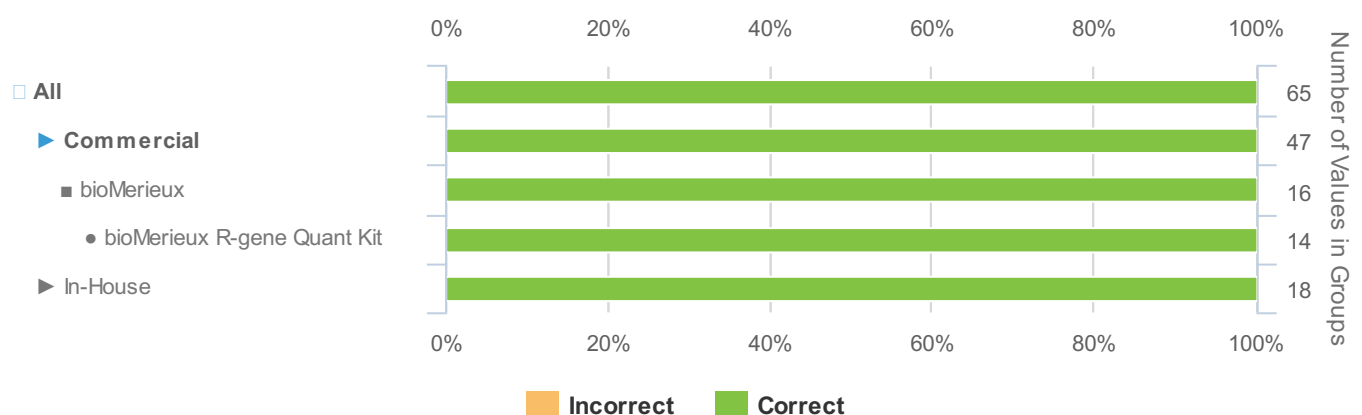
Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 Quality Control for Molecular Diagnostics		
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023	

EBVDNA18S-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-03	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	100.0	65



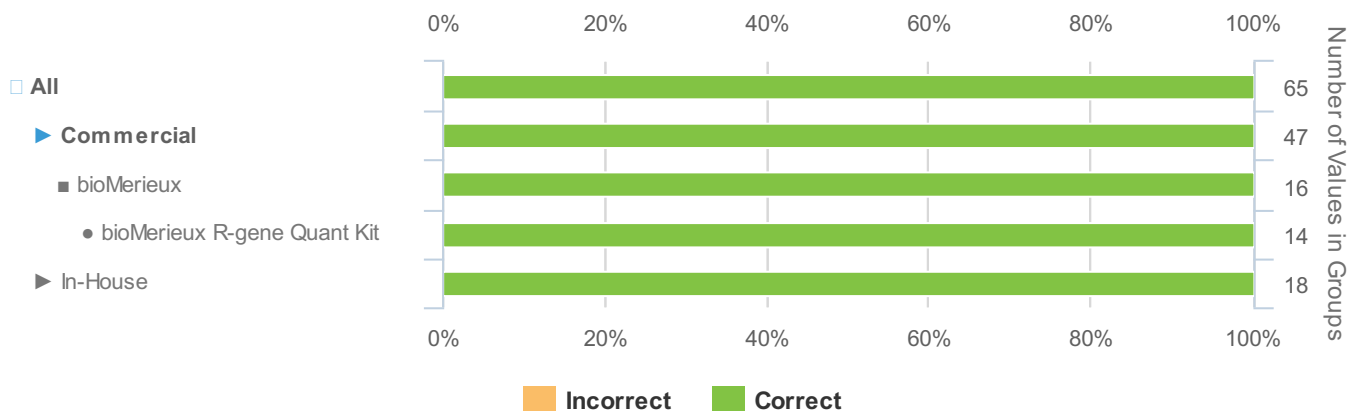
Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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EBVDNA18S-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-04	Epstein-Barr virus	Plasma	D2, DS1_3	Frequently Detected	CORE	100.0	65



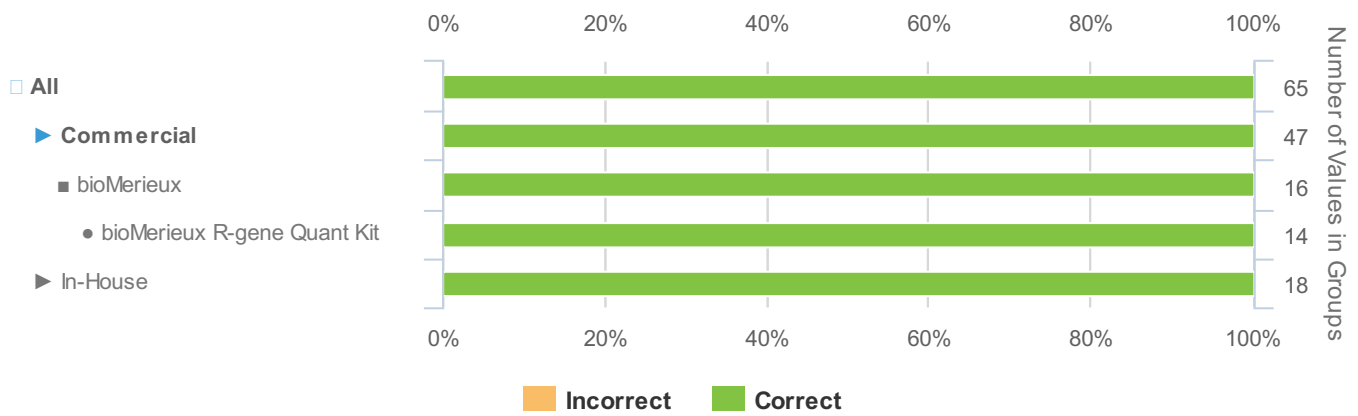
Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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EBVDNA18S-06 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-06	Epstein-Barr virus	Plasma	D1, DS1_1	Frequently Detected	CORE	100.0	65



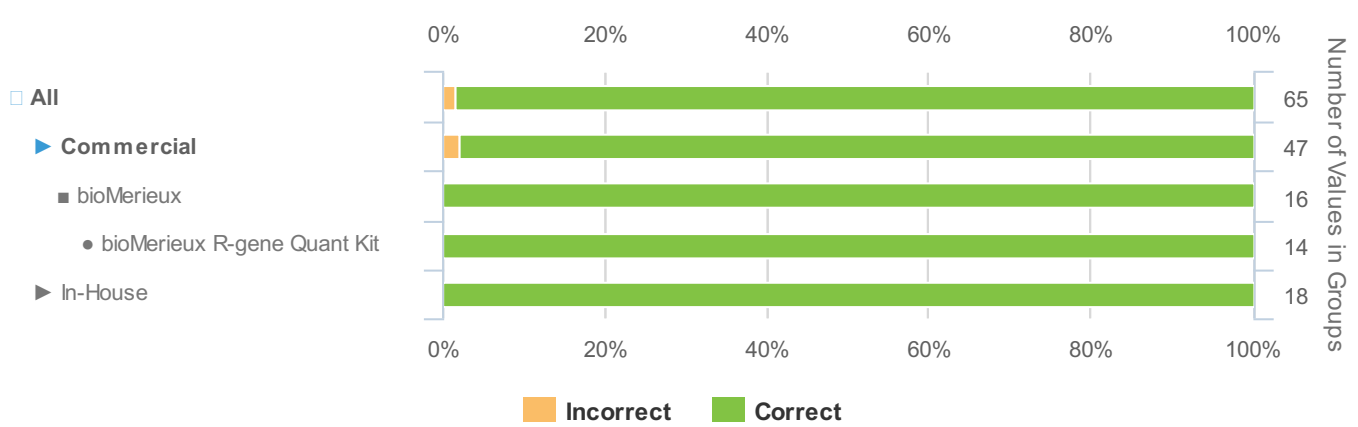
Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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EBVDNA18S-08 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-08	Epstein-Barr virus	Plasma	DS1_2	Frequently Detected	CORE	98.5	65



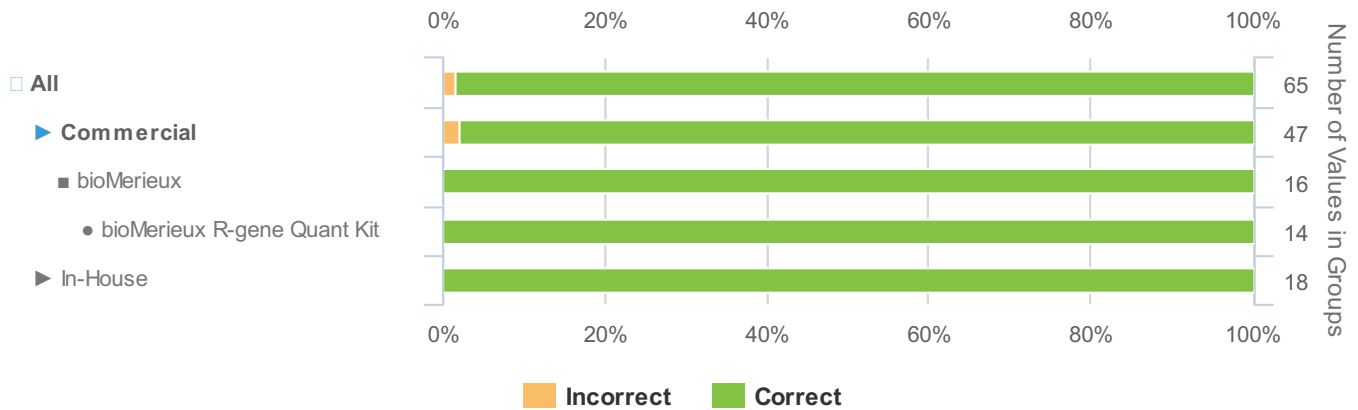
Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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EBVDNA18S-09 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-09	Negative	Plasma	-	Negative	CORE	98.5	65



Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023

Additional Educational Samples Information

The following section has been categorised as shown below:

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

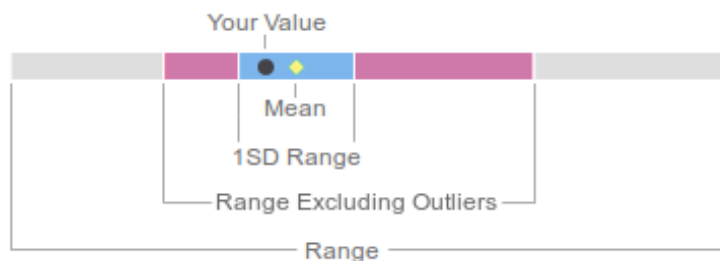
Individual Panel Member Analysis (Quantitative)

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/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.

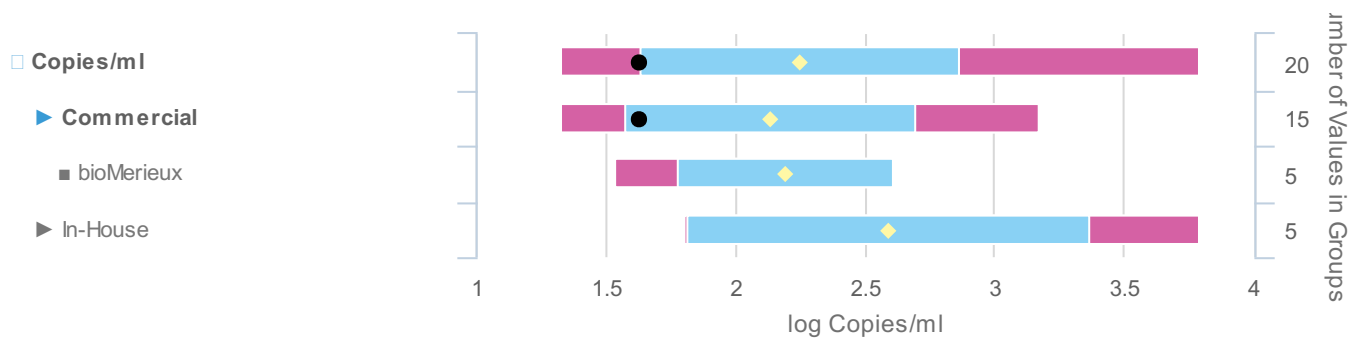
Key



Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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EBVDNA18S-05 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-05	Epstein-Barr virus	Plasma	DS1_5	Detected	EDUCATIONAL	2.244	20	1.322 - 3.786

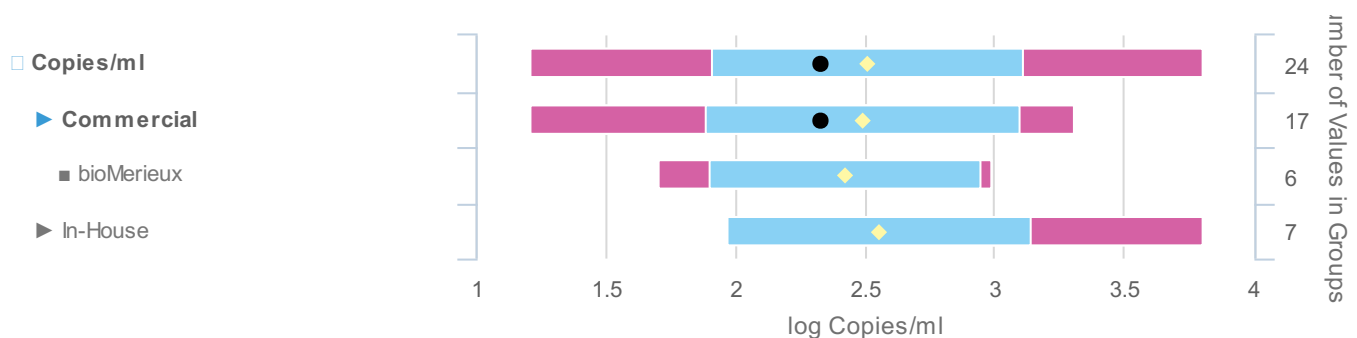


Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), ELITech Group (n=2), ELITech Group - Elitech Elite Real Time kit (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), QIAGEN (n=2), QIAGEN - QIAGEN Artus Real Time (n=2), Roche (n=1), Roche - Roche LightCycler (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1)

Groups Rolled Up: bioMerieux - bioMerieux R-gene Quant Kit (n=5), In-House - Real-time In-House PCR (n=5)

EBVDNA18S-07 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-07	Epstein-Barr virus	Plasma	D3, DS1_4	Detected	EDUCATIONAL	2.505	24	1.204 - 3.800



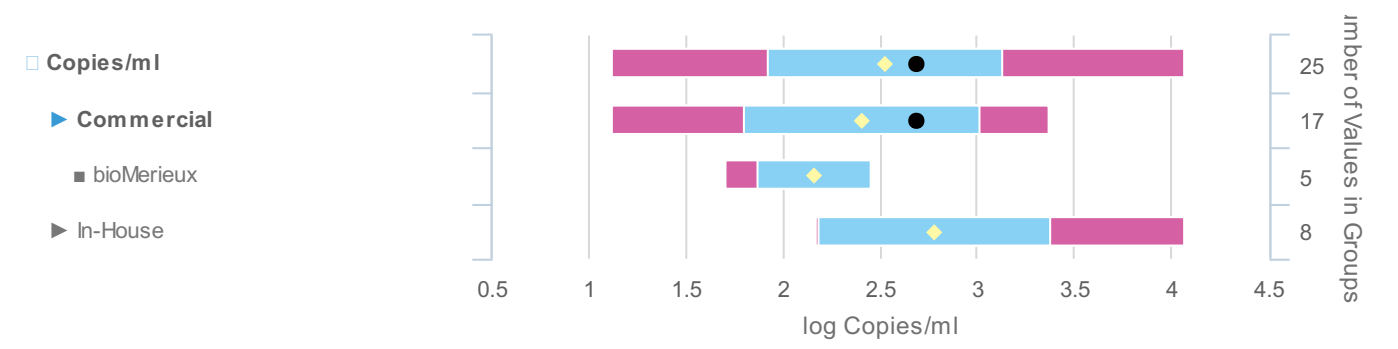
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=1), Roche - Roche LightCycler (n=1)

Groups Rolled Up: bioMerieux - bioMerieux R-gene Quant Kit (n=6), In-House - Real-time In-House PCR (n=7)

EBVDNA18S-10 - Quantitative Results Breakdown (Copies/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (Copies/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-10	Epstein-Barr virus	Plasma	D3, DS1_4	Detected	EDUCATIONAL	2.520	25	1.114 - 4.061



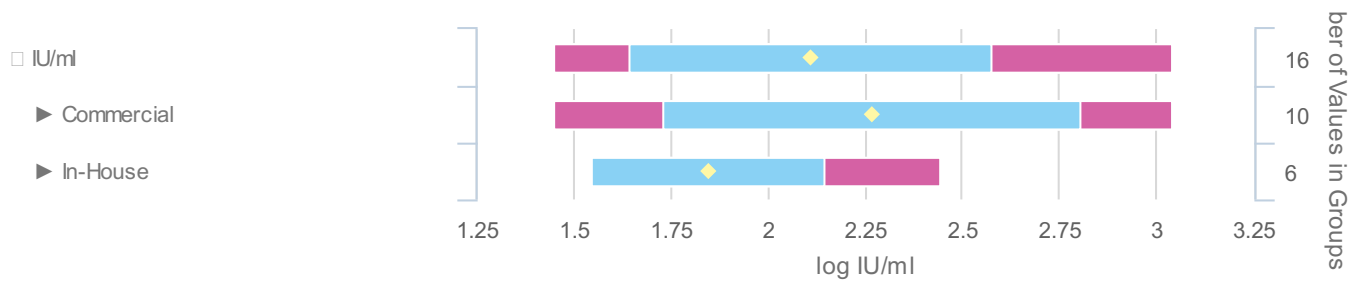
Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), QIAGEN (n=3), QIAGEN - QIAGEN Artus Real Time (n=3), Roche (n=1), Roche - Roche LightCycler (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1)

Groups Rolled Up: bioMerieux - bioMerieux R-gene Quant Kit (n=5), In-House - Real-time In-House PCR (n=8)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023
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EBVDNA18S-05 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-05	Epstein-Barr virus	Plasma	DS1_5	Detected	EDUCATIONAL	2.107	16	1.447 - 3.038

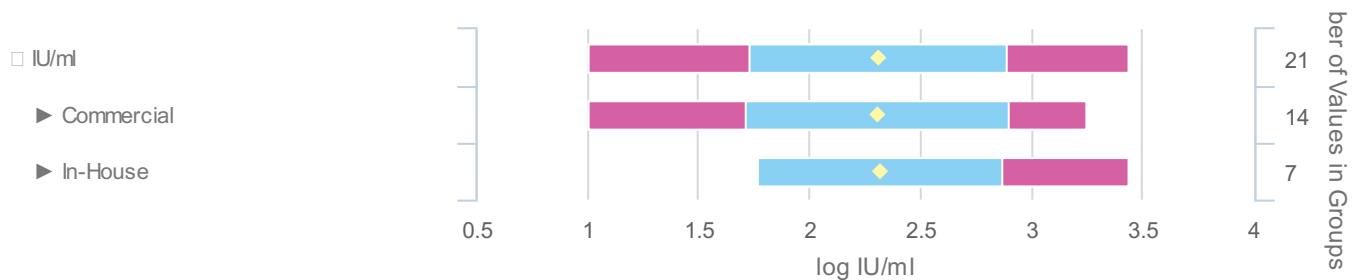


Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=3), Altona Diagnostics - Altona Diagnostics RealStar (n=3), bioMerieux (n=3), bioMerieux - bioMerieux R-gene Quant Kit (n=3), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD Real Time PCR (n=2)


Groups Rolled Up: In-House - Real-time In-House PCR (n=6)

EBVDNA18S-07 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-07	Epstein-Barr virus	Plasma	D3, DS1_4	Detected	EDUCATIONAL	2.305	21	1.000 - 3.433



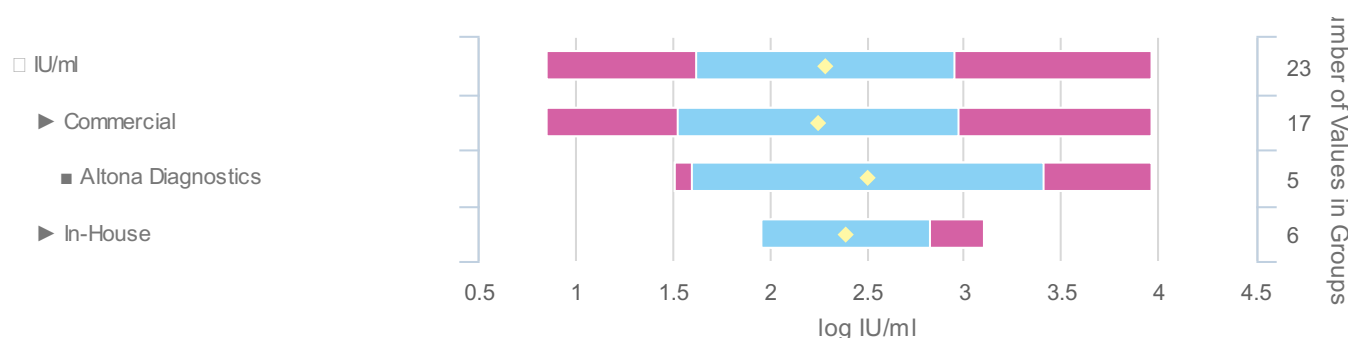
Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Altona Diagnostics (n=3), Altona Diagnostics - Altona Diagnostics RealStar (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), QIAGEN (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), bioMerieux (n=4), bioMerieux - bioMerieux R-gene Quant Kit (n=4), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD Real Time PCR (n=2)

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme			 Quality Control for Molecular Diagnostics		
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023	

Groups Rolled Up: In-House - Real-time In-House PCR (n=7)

EBVDNA18S-10 - Quantitative Results Breakdown (IU/ml)

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Consensus (IU/ml)		Range
						(Log ₁₀)	(n)	
EBVDNA18S-10	Epstein-Barr virus	Plasma	D3, DS1_4	Detected	EDUCATIONAL	2.280	23	0.845 - 3.960



Groups below n=5: Abbott (n=3), Abbott - Abbott Real Time PCR (n=3), Diagenode (n=1), Diagenode - Diagenode Real Time kit (n=1), QIAGEN (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), Vela Diagnostics (n=1), Vela Diagnostics - Vela Dx Sentosa (n=1), bioMerieux (n=4), bioMerieux - bioMerieux R-gene Quant Kit (n=4), fast-track DIAGNOSTICS (n=2), fast-track DIAGNOSTICS - FTD Real Time PCR (n=2)

Groups Rolled Up: Altona Diagnostics - Altona Diagnostics RealStar (n=5), In-House - Real-time In-House PCR (n=6)

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.

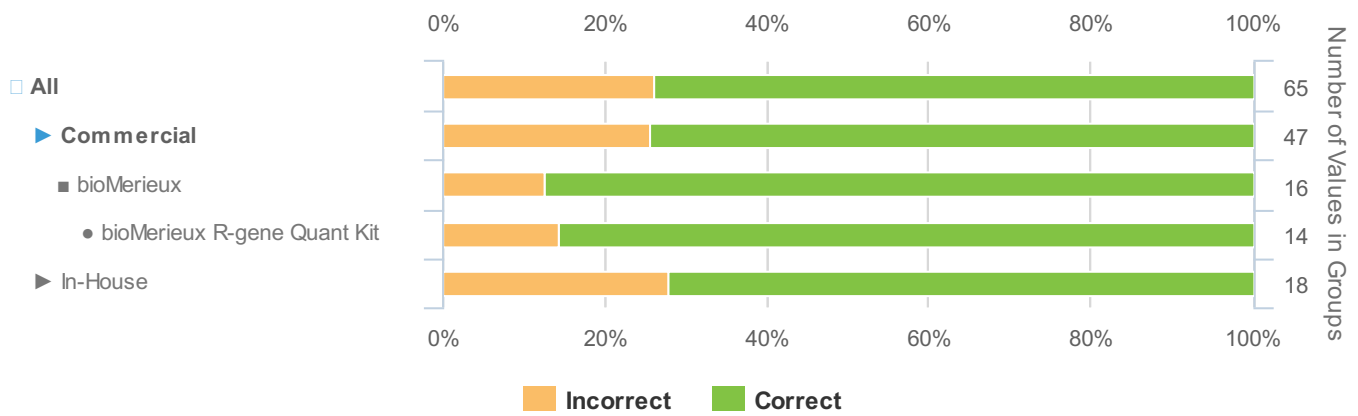
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or 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.

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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EBVDNA18S-05 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-05	Epstein-Barr virus	Plasma	DS1_5	Detected	EDUCATIONAL	73.8	65



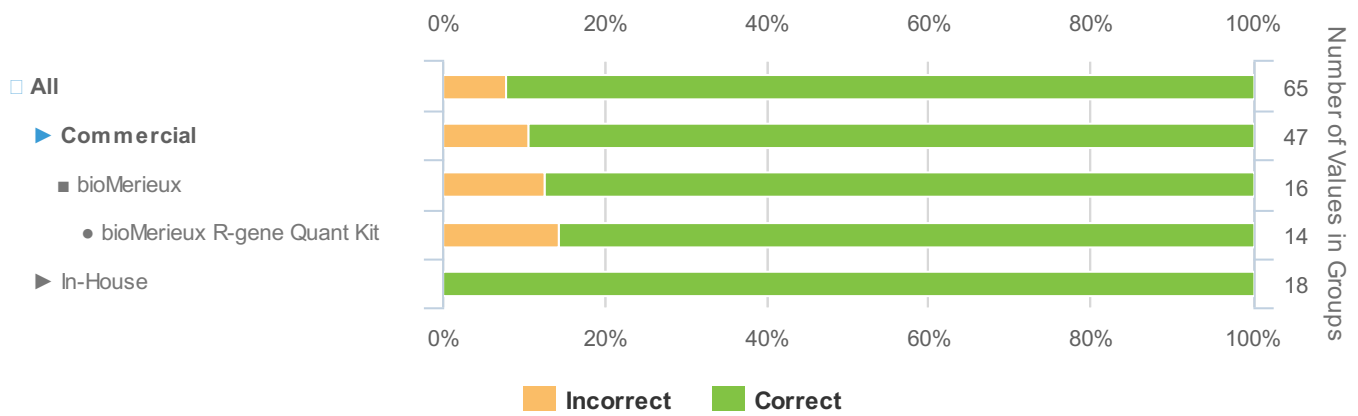
Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory CZ023
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EBVDNA18S-07 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-07	Epstein-Barr virus	Plasma	D3, DS1_4	Detected	EDUCATIONAL	92.3	65



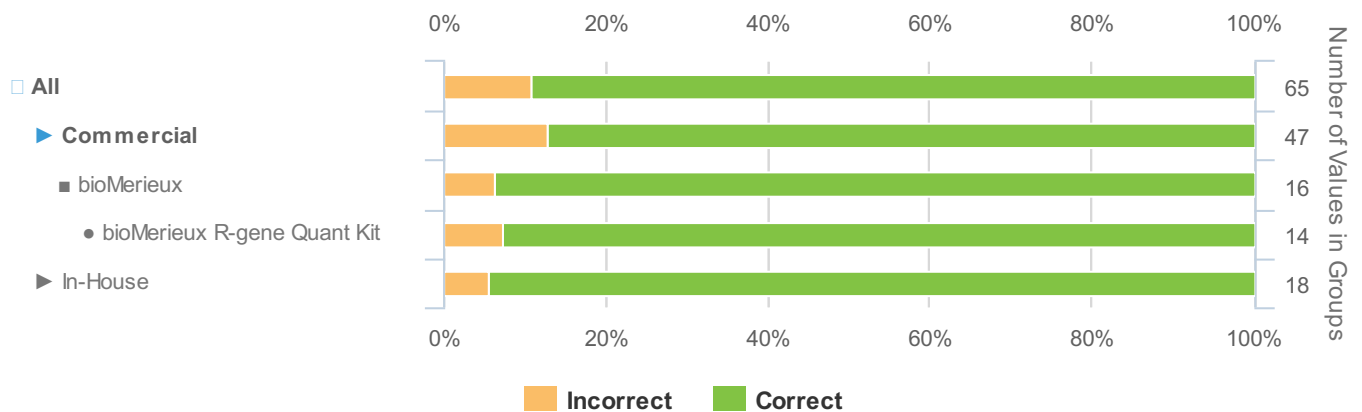
Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

Individual Report		QCMD 2018 Epstein-Barr virus DNA EQA Programme					
Catalogue Code: QAV024121	Ref Code: EBVDNA18	Challenge: S	Analysis Type: Qualitative and Quantitative	Dataset: 245002	Report UID: 2677/245002/1681	Laboratory: CZ023	

EBVDNA18S-10 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
EBVDNA18S-10	Epstein-Barr virus	Plasma	D3, DS1_4	Detected	EDUCATIONAL	89.2	65



Groups below n=5: Abbott (n=2), Abbott - Abbott Real Time PCR (n=2), Altona Diagnostics (n=4), Altona Diagnostics - Altona Diagnostics RealStar (n=4), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=2), Diagenode - Diagenode Real Time kit (n=2), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=3), GeneProof - GeneProof Real Time PCR kit (n=3), Genetic Signatures (n=1), Genetic Signatures - Genetic Signatures Easyscreen (n=1), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), PrimerDesign (n=1), PrimerDesign - Primer Design Genesig (n=1), QIAGEN (n=4), QIAGEN - QIAGEN Artus Real Time (n=4), Roche (n=1), Roche - Roche LightCycler (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Seegene (n=1), Seegene - Seegene Real Time PCR (n=1), Siemens (n=1), Siemens - Siemens kPCR PLX (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), bioMerieux - bioMerieux R-gene Kit (n=2), fast-track DIAGNOSTICS (n=3), fast-track DIAGNOSTICS - FTD Real Time PCR (n=3)

Groups Rolled Up: In-House - Real-time In-House PCR (n=18)

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