


Individual Report	QCMD 2016 Herpes Simplex Virus DNA EQA Programme				 Quality Control for Molecular Diagnostics	
Catalogue Code: QAV994105	Ref Code: HSVDNA16	Challenge: 2 of 2	Analysis Type: Qualitative	Dataset: 97733	Report UID: 2677/97733/652	Participant: CZ023-01

Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Detection Frequency [2]	Sample Status [3]	Percentage Correct (All) [4]	
						(%)	(n)
HSVDNA16C2-01	Herpes Simplex Virus 1 (95/1906)	Transport Medium	DS1_2	Detected	CORE	90.5	391
HSVDNA16C2-02	Herpes Simplex Virus 2 (09-015681)	Transport Medium		Frequently Detected	CORE	96.7	391
HSVDNA16C2-03	Herpes Simplex Virus 1 (95/1906)	Transport Medium	DS1_1	Frequently Detected	CORE	96.9	391
HSVDNA16C2-04	HSV Negative	Transport Medium		Negative	CORE	98.7	391
HSVDNA16C2-05	Herpes Simplex Virus 2 (MS)	Transport Medium		Detected	CORE	92.3	391

[1] **Sample Relationships:** Indicates the relationships of the samples within this challenge. Dilution series are indicated by 'DS1' with each panel member in the dilution series represented by a number in order of titre, where DS1_1 represents the highest titre within that dilution series. Further dilution series are indicated by 'DS2' 'DS3' 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] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative result and the total number of datasets (n) reported for each panel member.

For further details please refer to the current participant manual.


Your Summary Results

EQA Assessment Group [1]

GeneProof Real Time PCR kit

Core Panel Detection (Qualitative) Score [2]

0

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Sample Code	Qualitative Results			Your Quantitative Data (for information only) [3]		
	Percentage Correct (All) [4]	Your Result [5]	Detection Score [6]	Reported Value	Unitage	Cycle Threshold
HSVDNA16C2-01	90.5	Positive	0	927	Copies/ml	-
HSVDNA16C2-02	96.7	Positive	0	20601	Copies/ml	-
HSVDNA16C2-03	96.9	Positive	0	14900	Copies/ml	-
HSVDNA16C2-04	98.7	Negative	0	0	Copies/ml	-
HSVDNA16C2-05	92.3	Positive	0	668	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] **Quantitative Data (for information only):** This is the quantitative value, unitage and cycle threshold you provided when you submitted your results. For qualitative programmes this information is not used as part of your formal EQA assessment.

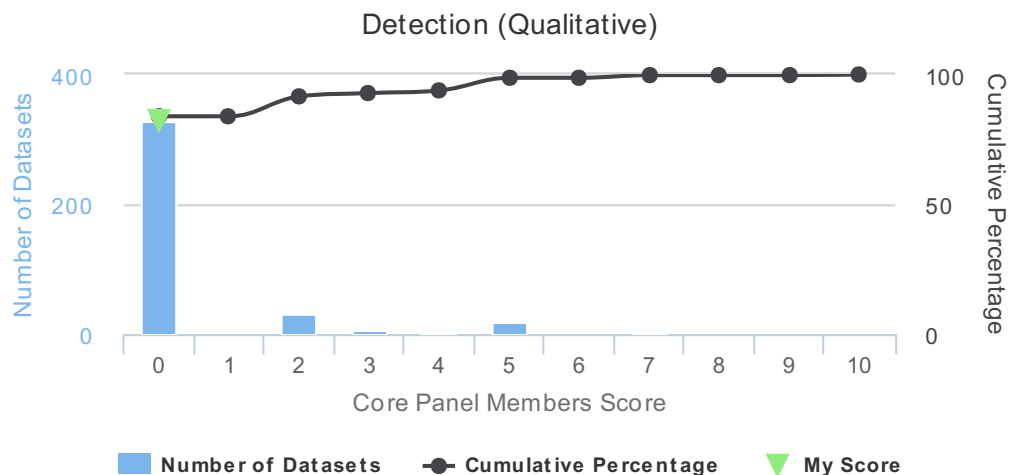
[4] **Percentage Correct (All)** Percentage of datasets (%) reporting the correct qualitative results for each panel member.


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

[6] **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.

Core Panel Member Score Breakdown






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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".
For further details please refer to the current participant manual.


My Workflow Details

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

Name	Herpes Simplex Virus (v4)
Description	
Targets	 herpes simplex virus
Assays	 Extraction - 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>  Amplification - Shanghai Hongshi Medical Technology - SLAN <ul style="list-style-type: none"> • Commercial <ul style="list-style-type: none"> ◦ Kit Manufacturer: <i>GeneProof</i> ◦ Kit Type: <i>Herpes Simplex Virus (HSV-1/2) PCR Kit</i> ◦ Kit Version: <i>ISEX</i>

Further Programme Details

Number of Participants	336
Number of Countries	40
Number of Respondents	320
Number of Datasets Submitted	391
Qualitative Results Returned	391 (100.0%)

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Comments

IMPORTANT NOTE: The QCMD 2016 HSVDNA16C2 EQA panel consists of both Herpes simplex Type 1 (HSV1) and Herpes simplex Type 2 (HSV2) panel members. Participants who reported separate datasets for the HSV1 and HSV2 will receive an individual report for each dataset. One individual report covering HSV1 results and a second individual report covering HSV2 results. Detailed performance analysis for each panel member is provided within the 'Additional Information: Individual Panel Member Analysis (Qualitative)' section of the respective individual reports.

If you reported separate datasets for HSV1 and HSV2 you should review both individual reports together as within the individual report containing your HSV1 results, the HSV2 positive panel members will be displayed as 'incorrect'. Similarly within the individual report containing your HSV2 results, the HSV1 positive panel members will be displayed as 'incorrect'.

If you require any assistance when reviewing your individual reports please contact the Neutral Office (neutraloffice@qcmd.org).

EQA Programme Aims

To assess the sensitivity of participants' molecular assays in detecting various strains of herpes simplex virus (HSV).

To review the performance of participants' quantitative HSV molecular assays.

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).

Additional Information: 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.

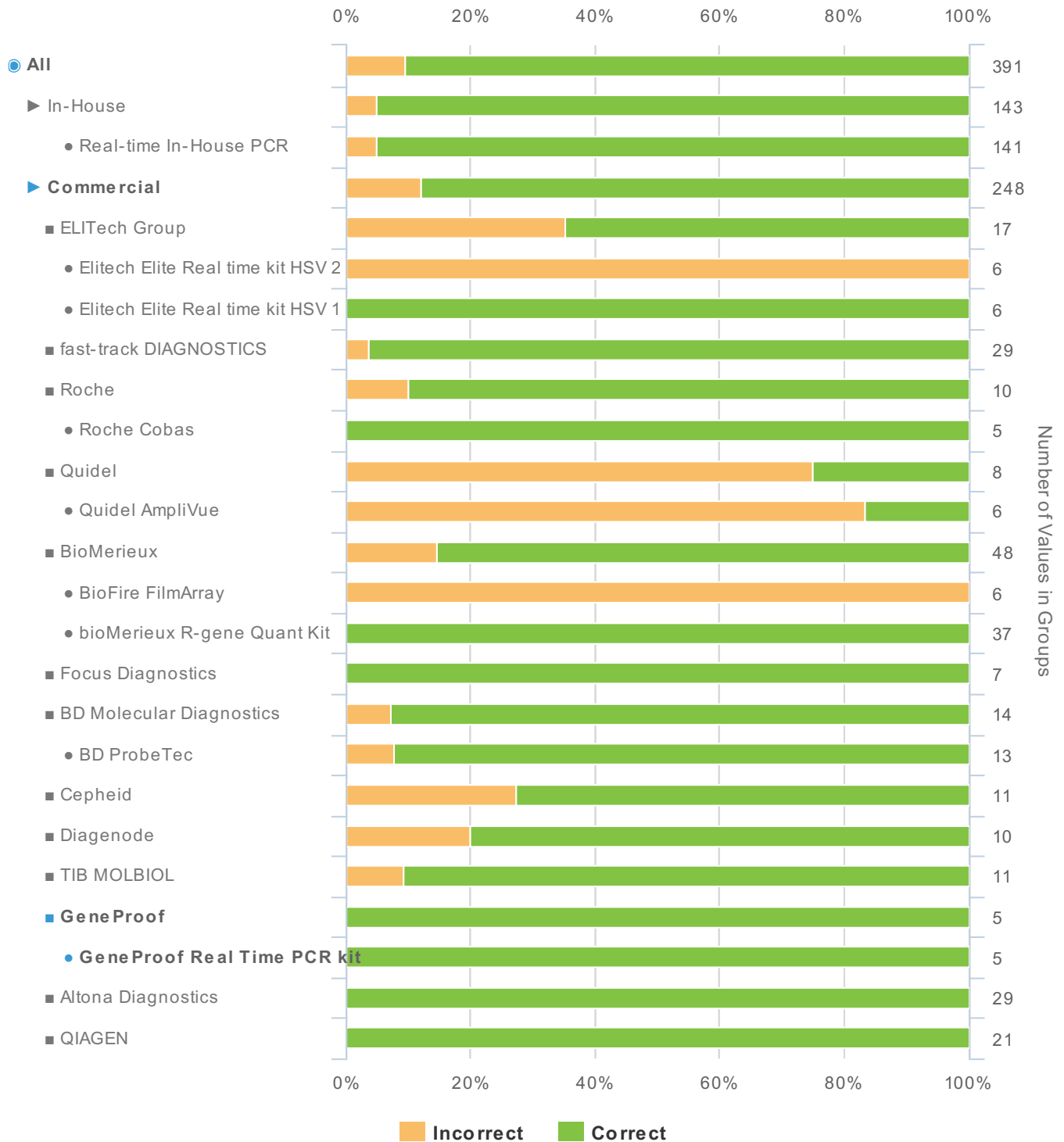
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or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

HSVDNA16C2-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct All

						(%)	(n)
HSVDNA16C2-01	Herpes Simplex Virus 1 (95/1906)	Transport Medium	DS1_2	Detected	CORE	90.5	391



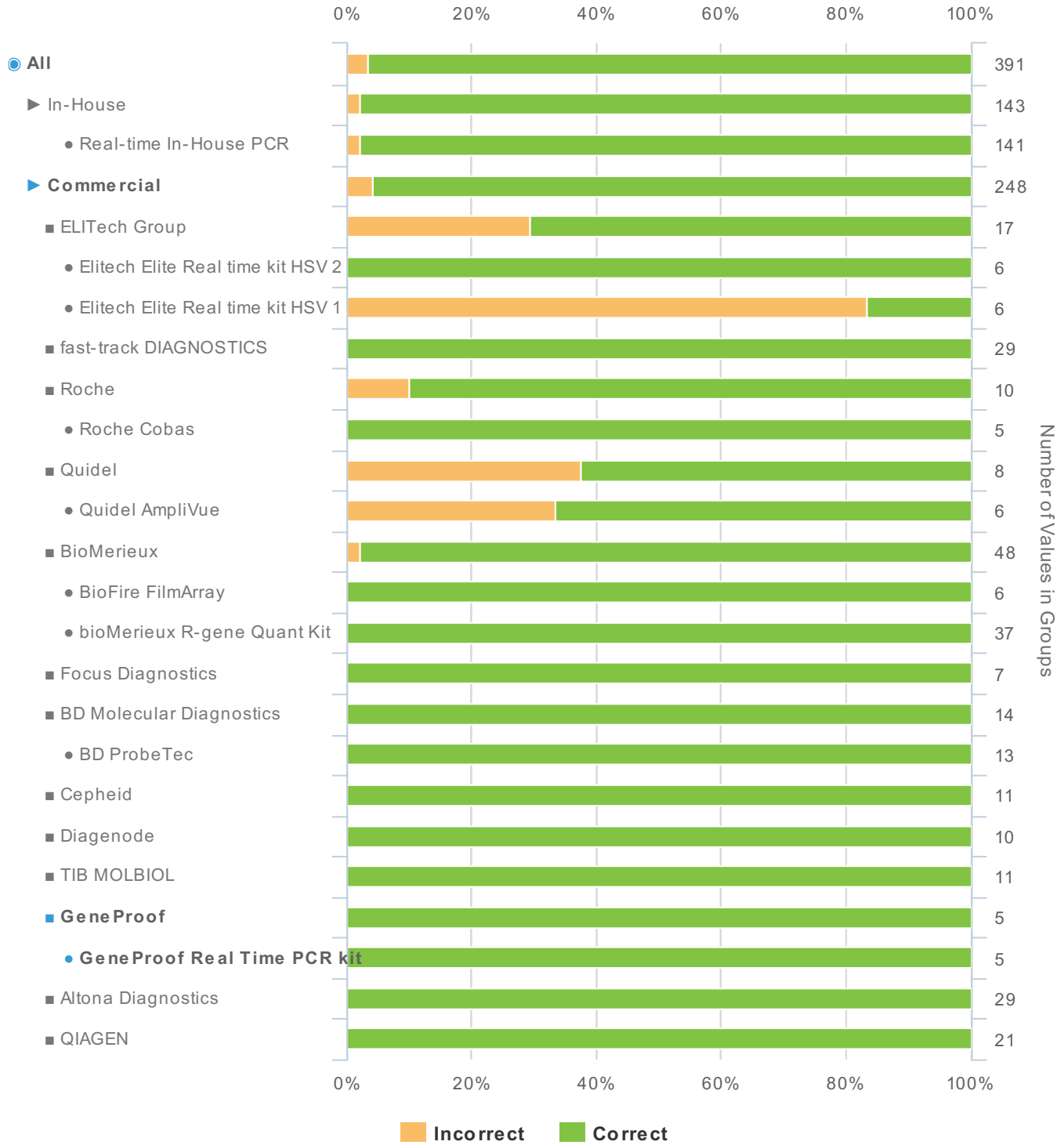
Individual Report	QCMD 2016 Herpes Simplex Virus DNA EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV994105	Ref Code: HSVDNA16	Challenge: 2 of 2	Analysis Type: Qualitative	Dataset: 97733	Report UID: 2677/97733/652	Participant: CZ023-01


Groups below n=5: In-House - Conventional In-House PCR (n=2), ELITech Group - Elitech Elite Real time kit (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), Roche - Roche LightCycler (n=3), Roche - Roche LightCycler HSV 2 (n=1), Roche - Roche LightCycler HSV 1 (n=1), Quidel - Quidel Real Time PCR (n=2), BioMerieux - bioMerieux R-gene Kit (n=3), BioMerieux - bioMerieux R-gene Quant Kit HSV 2 (n=1), BioMerieux - bioMerieux R-gene Quant Kit HSV 1 (n=1), BD Molecular Diagnostics - BD MAX (n=1), Sacace (n=2), Sacace - Sacace Real TM (n=2), AusDiagnostics (n=2), AusDiagnostics - AusDiagnostics Easy-Plex (n=2), Mobidiag (n=1), Mobidiag - Mobidiag Prove-it (n=1), Biologig (n=1), Biologig - Biologig Other (n=1), InterLabService (n=2), InterLabService - InterLabService AmpliSens (n=2), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), PathoFinder (n=2), PathoFinder - PathoFinder Real Time PCR (n=2), Progenie Molecular (n=3), Progenie Molecular - Progenie Molecular RealCycler (n=3), Meridian Bioscience (n=1), Meridian Bioscience - Meridian Bioscience illumigene (n=1), DiagCor (n=1), DiagCor - DiagCor GenoFlow (n=1), AB Analitica (n=3), AB Analitica - AB Analitica REALQUALITY RQ (n=3), Clonit (n=1), Clonit - Clonit PCR Reagents (n=1), Abbott (n=2), Abbott - Abbott Realtime (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Seegene (n=4), Seegene - Seegene Seeplex (n=4)

Groups Rolled Up: fast-track DIAGNOSTICS - FTD Real Time PCR (n=29), Focus Diagnostics - Focus Diagnostics Simplexa (n=7), Cepheid - Cepheid SmartCycler (n=11), Diagenode - Diagenode Real Time kit (n=10), TIB MOLBIOL - TIB-MoIBiol LightMix (n=11), Altona Diagnostics - Altona Diagnostics RealStar (n=29), QIAGEN - Qiagen Artus Real Time (n=21)

HSVDNA16C2-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct All	
						(%)	(n)
HSVDNA16C2-02	Herpes Simplex Virus 2 (09-015681)	Transport Medium		Frequently Detected	CORE	96.7	391



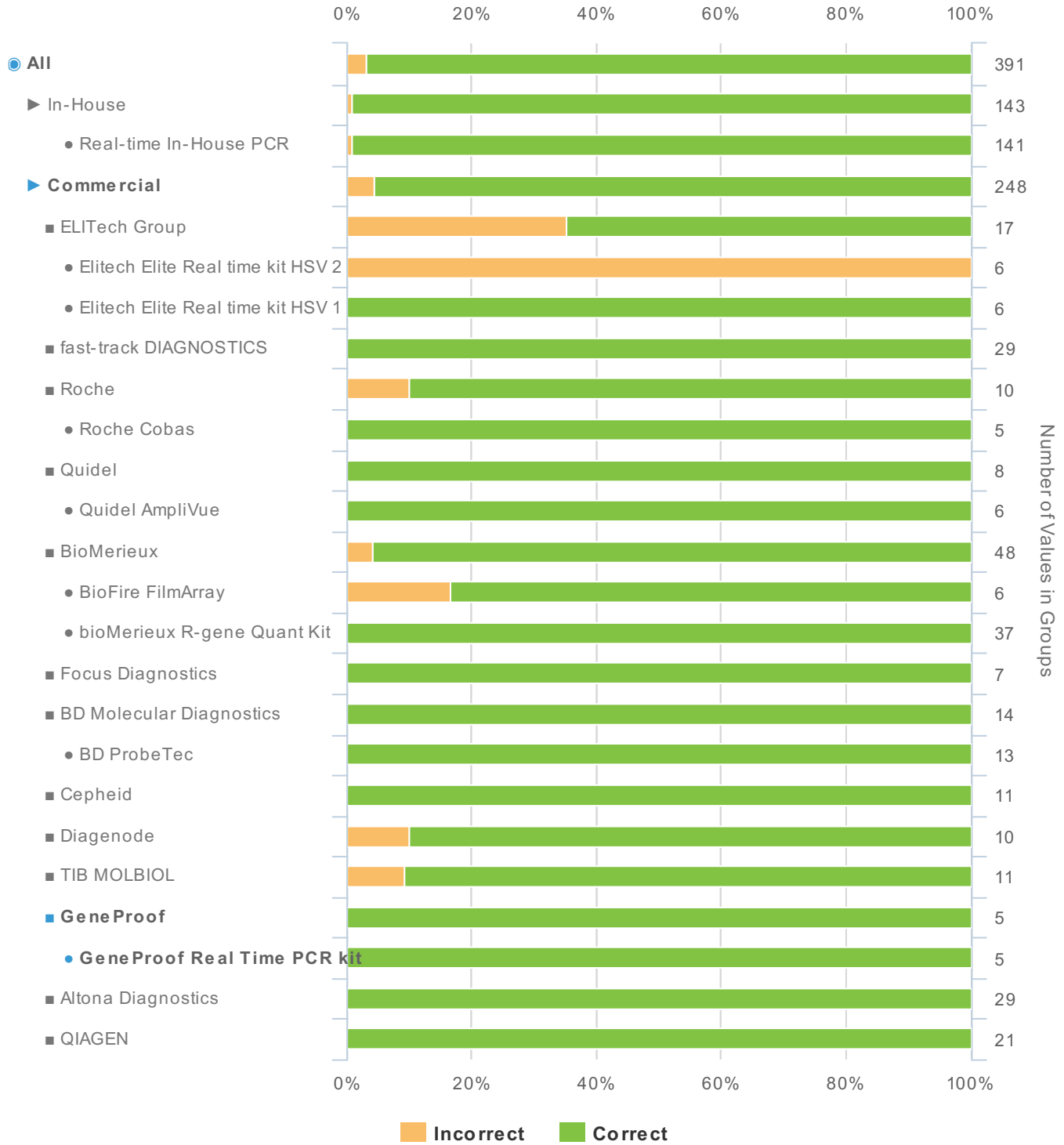
Individual Report	QCMD 2016 Herpes Simplex Virus DNA EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV994105	Ref Code: HSVDNA16	Challenge: 2 of 2	Analysis Type: Qualitative	Dataset: 97733	Report UID: 2677/97733/652	Participant: CZ023-01


Groups below n=5: In-House - Conventional In-House PCR (n=2), ELITech Group - Elitech Elite Real time kit (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), Roche - Roche LightCycler (n=3), Roche - Roche LightCycler HSV 2 (n=1), Roche - Roche LightCycler HSV 1 (n=1), Quidel - Quidel Real Time PCR (n=2), BioMerieux - bioMerieux R-gene Kit (n=3), BioMerieux - bioMerieux R-gene Quant Kit HSV 2 (n=1), BioMerieux - bioMerieux R-gene Quant Kit HSV 1 (n=1), BD Molecular Diagnostics - BD MAX (n=1), Sacace (n=2), Sacace - Sacace Real TM (n=2), AusDiagnostics (n=2), AusDiagnostics - AusDiagnostics Easy-Plex (n=2), Mobidiag (n=1), Mobidiag - Mobidiag Prove-it (n=1), Biologig (n=1), Biologig - Biologig Other (n=1), InterLabService (n=2), InterLabService - InterLabService AmpliSens (n=2), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), PathoFinder (n=2), PathoFinder - PathoFinder Real Time PCR (n=2), Progenie Molecular (n=3), Progenie Molecular - Progenie Molecular RealCycler (n=3), Meridian Bioscience (n=1), Meridian Bioscience - Meridian Bioscience illumigene (n=1), DiagCor (n=1), DiagCor - DiagCor GenoFlow (n=1), AB Analitica (n=3), AB Analitica - AB Analitica REALQUALITY RQ (n=3), Clonit (n=1), Clonit - Clonit PCR Reagents (n=1), Abbott (n=2), Abbott - Abbott Realtime (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Seegene (n=4), Seegene - Seegene Seeplex (n=4)

Groups Rolled Up: fast-track DIAGNOSTICS - FTD Real Time PCR (n=29), Focus Diagnostics - Focus Diagnostics Simplexa (n=7), Cepheid - Cepheid SmartCycler (n=11), Diagenode - Diagenode Real Time kit (n=10), TIB MOLBIOL - TIB-MoIBiol LightMix (n=11), Altona Diagnostics - Altona Diagnostics RealStar (n=29), QIAGEN - Qiagen Artus Real Time (n=21)

HSVDNA16C2-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct All	
						(%)	(n)
HSVDNA16C2-03	Herpes Simplex Virus 1 (95/1906)	Transport Medium	DS1_1	Frequently Detected	CORE	96.9	391



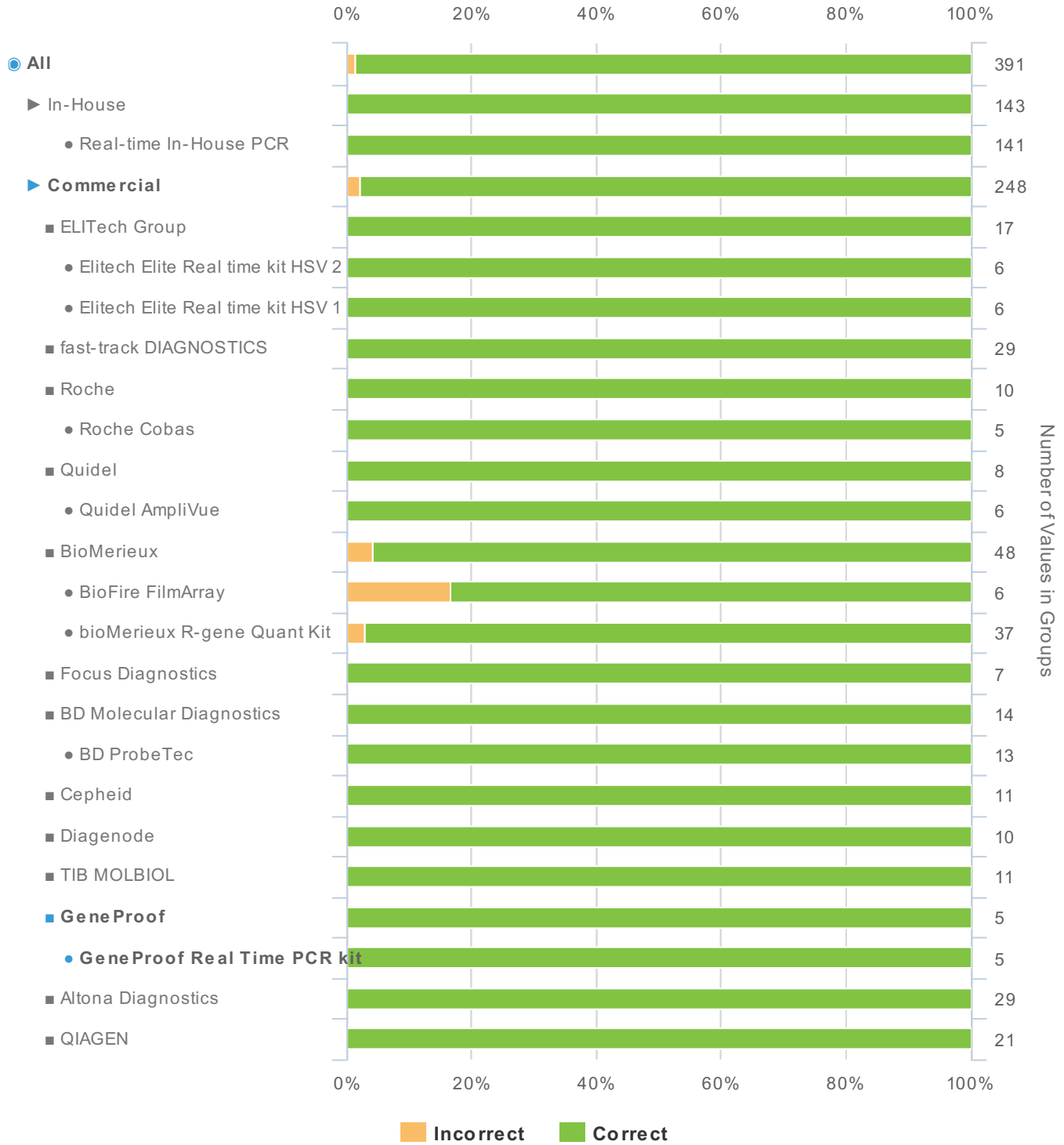
Individual Report	QCMD 2016 Herpes Simplex Virus DNA EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV994105	Ref Code: HSVDNA16	Challenge: 2 of 2	Analysis Type: Qualitative	Dataset: 97733	Report UID: 2677/97733/652	Participant: CZ023-01


Groups below n=5: In-House - Conventional In-House PCR (n=2), ELITech Group - Elitech Elite Real time kit (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), Roche - Roche LightCycler (n=3), Roche - Roche LightCycler HSV 2 (n=1), Roche - Roche LightCycler HSV 1 (n=1), Quidel - Quidel Real Time PCR (n=2), BioMerieux - bioMerieux R-gene Kit (n=3), BioMerieux - bioMerieux R-gene Quant Kit HSV 2 (n=1), BioMerieux - bioMerieux R-gene Quant Kit HSV 1 (n=1), BD Molecular Diagnostics - BD MAX (n=1), Sacace (n=2), Sacace - Sacace Real TM (n=2), AusDiagnostics (n=2), AusDiagnostics - AusDiagnostics Easy-Plex (n=2), Mobidiag (n=1), Mobidiag - Mobidiag Prove-it (n=1), Biologig (n=1), Biologig - Biologig Other (n=1), InterLabService (n=2), InterLabService - InterLabService AmpliSens (n=2), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), PathoFinder (n=2), PathoFinder - PathoFinder Real Time PCR (n=2), Progenie Molecular (n=3), Progenie Molecular - Progenie Molecular RealCycler (n=3), Meridian Bioscience (n=1), Meridian Bioscience - Meridian Bioscience illumigene (n=1), DiagCor (n=1), DiagCor - DiagCor GenoFlow (n=1), AB Analitica (n=3), AB Analitica - AB Analitica REALQUALITY RQ (n=3), Clonit (n=1), Clonit - Clonit PCR Reagents (n=1), Abbott (n=2), Abbott - Abbott Realtime (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Seegene (n=4), Seegene - Seegene Seeplex (n=4)

Groups Rolled Up: fast-track DIAGNOSTICS - FTD Real Time PCR (n=29), Focus Diagnostics - Focus Diagnostics Simplexa (n=7), Cepheid - Cepheid SmartCycler (n=11), Diagenode - Diagenode Real Time kit (n=10), TIB MOLBIOL - TIB-MoIBiol LightMix (n=11), Altona Diagnostics - Altona Diagnostics RealStar (n=29), QIAGEN - Qiagen Artus Real Time (n=21)

HSVDNA16C2-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct All	
						(%)	(n)
HSVDNA16C2-04	HSV Negative	Transport Medium		Negative	CORE	98.7	391



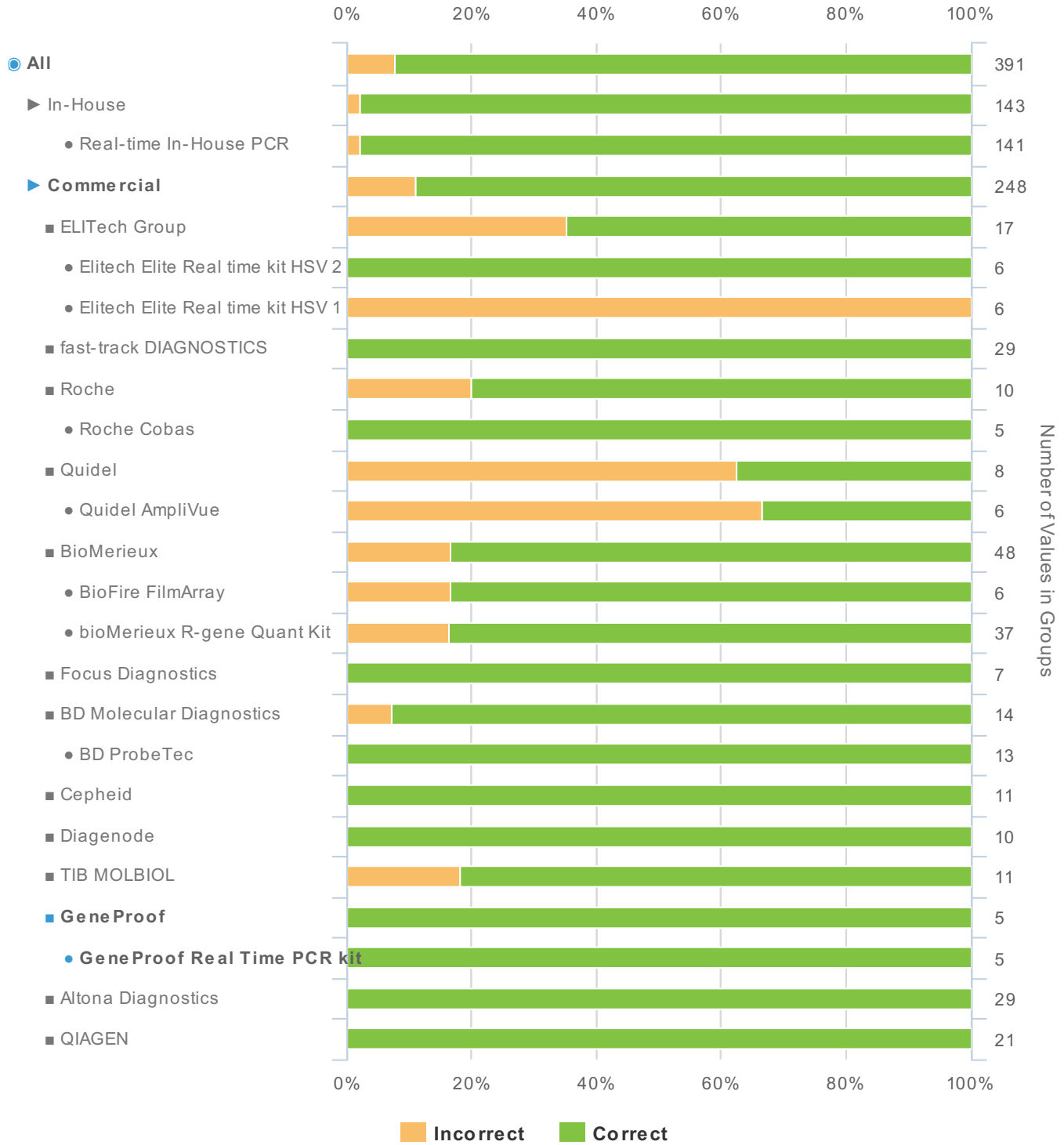
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Catalogue Code: QAV994105	Ref Code: HSVDNA16	Challenge: 2 of 2	Analysis Type: Qualitative	Dataset: 97733	Report UID: 2677/97733/652	Participant: CZ023-01


Groups below n=5: In-House - Conventional In-House PCR (n=2), ELITech Group - Elitech Elite Real time kit (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), Roche - Roche LightCycler (n=3), Roche - Roche LightCycler HSV 2 (n=1), Roche - Roche LightCycler HSV 1 (n=1), Quidel - Quidel Real Time PCR (n=2), BioMerieux - bioMerieux R-gene Kit (n=3), BioMerieux - bioMerieux R-gene Quant Kit HSV 2 (n=1), BioMerieux - bioMerieux R-gene Quant Kit HSV 1 (n=1), BD Molecular Diagnostics - BD MAX (n=1), Sacace (n=2), Sacace - Sacace Real TM (n=2), AusDiagnostics (n=2), AusDiagnostics - AusDiagnostics Easy-Plex (n=2), Mobidiag (n=1), Mobidiag - Mobidiag Prove-it (n=1), Biologig (n=1), Biologig - Biologig Other (n=1), InterLabService (n=2), InterLabService - InterLabService AmpliSens (n=2), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), PathoFinder (n=2), PathoFinder - PathoFinder Real Time PCR (n=2), Progenie Molecular (n=3), Progenie Molecular - Progenie Molecular RealCycler (n=3), Meridian Bioscience (n=1), Meridian Bioscience - Meridian Bioscience illumigene (n=1), DiagCor (n=1), DiagCor - DiagCor GenoFlow (n=1), AB Analitica (n=3), AB Analitica - AB Analitica REALQUALITY RQ (n=3), Clonit (n=1), Clonit - Clonit PCR Reagents (n=1), Abbott (n=2), Abbott - Abbott Realtime (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Seegene (n=4), Seegene - Seegene Seeplex (n=4)

Groups Rolled Up: fast-track DIAGNOSTICS - FTD Real Time PCR (n=29), Focus Diagnostics - Focus Diagnostics Simplexa (n=7), Cepheid - Cepheid SmartCycler (n=11), Diagenode - Diagenode Real Time kit (n=10), TIB MOLBIOL - TIB-MoIBiol LightMix (n=11), Altona Diagnostics - Altona Diagnostics RealStar (n=29), QIAGEN - Qiagen Artus Real Time (n=21)

HSVDNA16C2-05 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct All	
						(%)	(n)
HSVDNA16C2-05	Herpes Simplex Virus 2 (MS)	Transport Medium		Detected	CORE	92.3	391



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Groups Rolled Up: fast-track DIAGNOSTICS - FTD Real Time PCR (n=29), Focus Diagnostics - Focus Diagnostics Simplexa (n=7), Cepheid - Cepheid SmartCycler (n=11), Diagenode - Diagenode Real Time kit (n=10), TIB MOLBIOL - TIB-MoIBiol LightMix (n=11), Altona Diagnostics - Altona Diagnostics RealStar (n=29), QIAGEN - Qiagen Artus Real Time (n=21)

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