Individual Report	QCMD 2022 Herpes simplex virus DNA EQA Programme	QCMD Quality Control for Molecular Diagnostics

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Detection Frequency [2]	Sample Status [3]	Percentage Correct (All) [4]	
						(%)	*(n)*
HSVDNA22C2-01	HSV-2	Transport medium		Frequently Detected	CORE	95.1	205
HSVDNA22C2-02	HSV-1 (Clinical)	Transport medium	D1, DS1_2	Frequently Detected	CORE	96.6	205
HSVDNA22C2-03	HSV-1 (Clinical)	Transport medium	DS1_3	Detected	EDUCATIONAL	89.3	205
HSVDNA22C2-04	HSV-1 (Clinical)	Transport medium	DS1_1	Frequently Detected	CORE	98.5	205
HSVDNA22C2-05	HSV-1 (Clinical)	Transport medium	D1, DS1_2	Frequently Detected	CORE	96.1	205

[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] **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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Page 1 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Individual Report	QCMD 2022 Herpes simplex virus DNA EQA Programme					
Catalogue Code: QAV994105	**Ref Code:** HSVDNA22	**Challenge:** C2	**Analysis Type:** Qualitative	**Dataset:** 565612	**Report UID:** 2677/565612/4858	**Laboratory** CZ023

Core Panel Members Results

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**
HSVDNA22C2-01	95.1	Positive	0	27333	Copies/ml	28.07
HSVDNA22C2-02	96.6	Positive	0	7695	Copies/ml	31.45
HSVDNA22C2-04	98.5	Positive	0	18328	Copies/ml	30.18
HSVDNA22C2-05	96.1	Positive	0	9177	Copies/ml	31.19

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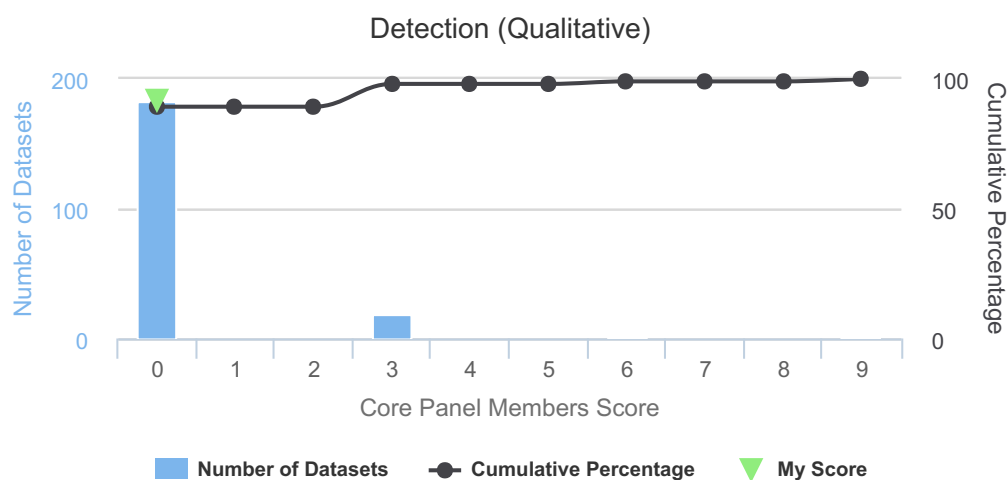
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative results for each panel member.

[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

Detection (Qualitative)

Individual Report	QCMD 2022 Herpes simplex virus DNA EQA Programme	

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

> **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(s) used to submit your results for this challenge.

Name	Herpes Simplex Virus (v6)
Description	
Targets	V herpes simplex virus
Assays	*Extraction* - Manual Extraction Process • Commercial 　○ Kit Manufacturer: *GeneProof* 　○ Kit Type: *PathogenFree DNA Isolation Kit* *Amplification* - GeneProof - croBEE Real-Time PCR System • Multiplex • Commercial 　○ Kit Manufacturer: *GeneProof* 　○ Kit Type: *Herpes Simplex Virus (HSV-1/2) PCR Kit* 　○ Kit Version: *GP*

Educational Panel Members Results

Sample Code	Qualitative Results			Your Quantitative Data (for information only) [1]		
	Percentage Correct (All) [2]	**Your Result** [3]	**Detection Score** [4]	**Reported Value**	**Unitage**	**Cycle Threshold**
HSVDNA22C2-03	89.3	Positive	0	546	Copies/ml	35.28

[1] **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.

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

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

[4] **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.

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Page 3 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Individual Report	QCMD 2022 Herpes simplex virus DNA EQA Programme	QCMD Quality Control for Molecular Diagnostics

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

Further Programme Details

Number of Participants	181
Number of Countries	30
Number of Respondents	165
Number of Datasets Submitted	205
Qualitative Results Returned	205 (100.0%)

EQA Programme Aims

To assess the ability of laboratories molecular assays to detect different types and concentrations of herpes simplex virus (HSV).

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

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Page 4 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Individual Report	QCMD 2022 Herpes simplex virus DNA EQA Programme	

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

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 ► Qualitative

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.

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Page 5 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

HSVDNA22C2-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
HSVDNA22C2-01	HSV-2	Transport medium		Frequently Detected	CORE	95.1	205

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Page 6 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), Abacus Diagnostica (n=2), Abacus Diagnostica - Abacus GenomeEra (n=2), Altona Diagnostics - Altona Diagnostics AltoStar (n=3), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics TandemPlex (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD ProbeTec (n=3), Bio-Evoluation (n=1), Bio-Evoluation - Bio-Evolution Real Time PCR (n=1), BioGX (n=3), BioGX - BioGX Sample-Ready (n=3), Cepheid (n=1), Cepheid - Cepheid Xpert kit (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real Time kit (n=4), Luminex (n=2), Luminex - Luminex ARIES (n=2), Progenie Molecular (n=1), Progenie Molecular - Progenie Molecular RealCycler (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Roche - Roche Cobas 4800 (n=3), Roche - Roche Cobas TaqMan (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Seegene (n=3), Seegene - Seegene Allplex (n=2), Seegene - Seegene Seeplex (n=1), TIB MOLBIOL (n=3), TIB MOLBIOL - TIB MOLBIOL LightMix (n=3), In-House - Conventional In-House PCR (n=2)

Groups Rolled Up: DiaSorin - DiaSorin Simplexa (n=14), Hologic - Hologic Aptima (n=5), QIAGEN - QIAGEN Artus Real Time (n=8), bioMerieux - bioMerieux R-gene Quant Kit (n=27), fast-track DIAGNOSTICS - FTD real time PCR (n=5)

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Page 7 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

HSVDNA22C2-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
HSVDNA22C2-02	HSV-1 (Clinical)	Transport medium	D1, DS1_2	Frequently Detected	CORE	96.6	205

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Page 8 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Individual Report	QCMD 2022 Herpes simplex virus DNA EQA Programme	QCMD Quality Control for Molecular Diagnostics

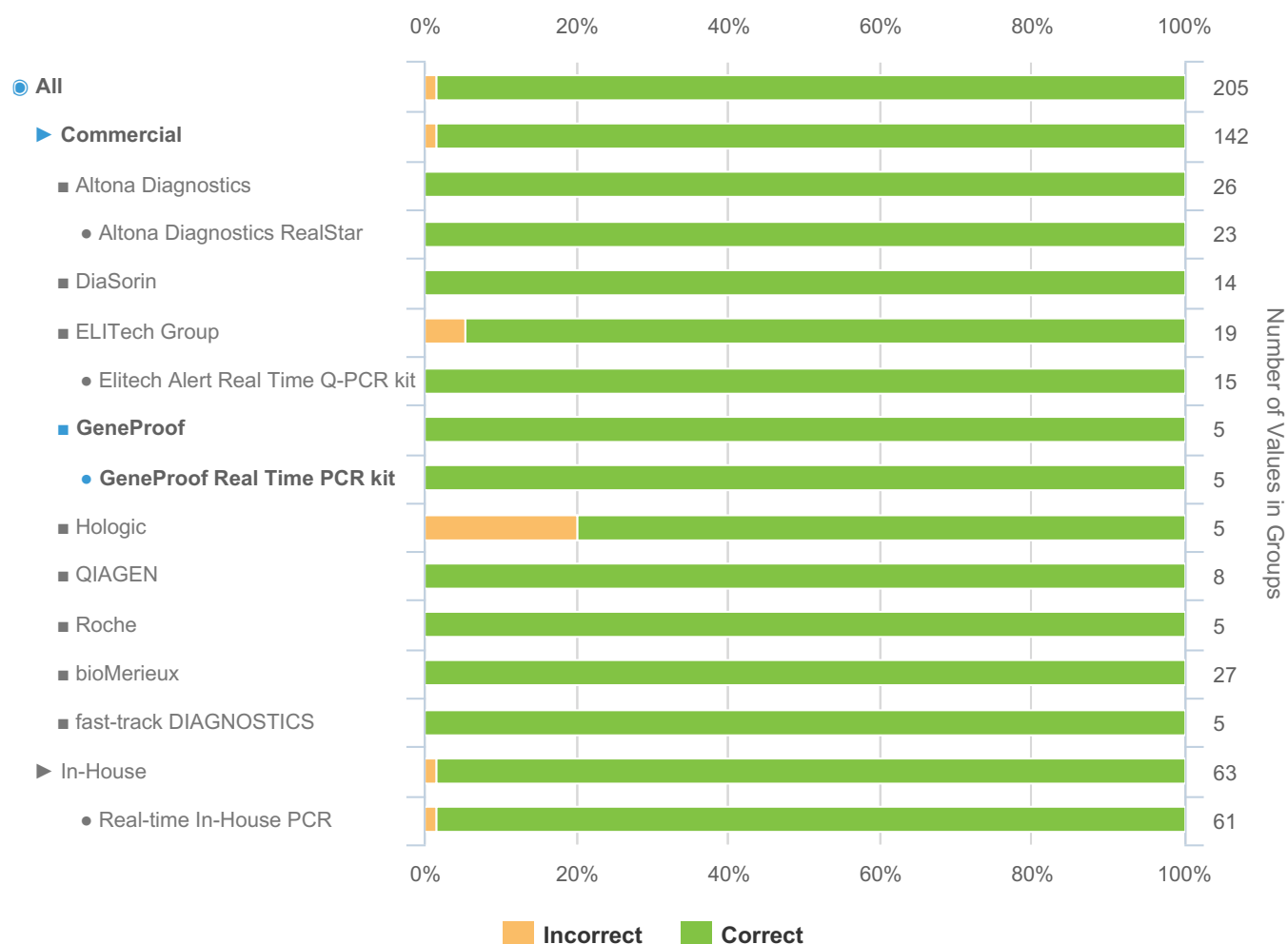| Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), Abacus Diagnostica (n=2), Abacus Diagnostica - Abacus GenomeEra (n=2), Altona Diagnostics - Altona Diagnostics AltoStar (n=3), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics TandemPlex (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD ProbeTec (n=3), Bio-Evoluation (n=1), Bio-Evoluation - Bio-Evolution Real Time PCR (n=1), BioGX (n=3), BioGX - BioGX Sample-Ready (n=3), Cepheid (n=1), Cepheid - Cepheid Xpert kit (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real Time kit (n=4), Luminex (n=2), Luminex - Luminex ARIES (n=2), Progenie Molecular (n=1), Progenie Molecular - Progenie Molecular RealCycler (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Roche - Roche Cobas 4800 (n=3), Roche - Roche Cobas TaqMan (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Seegene (n=3), Seegene - Seegene Allplex (n=2), Seegene - Seegene Seeplex (n=1), TIB MOLBIOL (n=3), TIB MOLBIOL - TIB MOLBIOL LightMix (n=3), In-House - Conventional In-House PCR (n=2)

Groups Rolled Up: DiaSorin - DiaSorin Simplexa (n=14), Hologic - Hologic Aptima (n=5), QIAGEN - QIAGEN Artus Real Time (n=8), bioMerieux - bioMerieux R-gene Quant Kit (n=27), fast-track DIAGNOSTICS - FTD real time PCR (n=5)

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Page 9 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Individual Report	QCMD 2022 Herpes simplex virus DNA EQA Programme		

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

HSVDNA22C2-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
HSVDNA22C2-04	HSV-1 (Clinical)	Transport medium	DS1_1	Frequently Detected	CORE	98.5	205

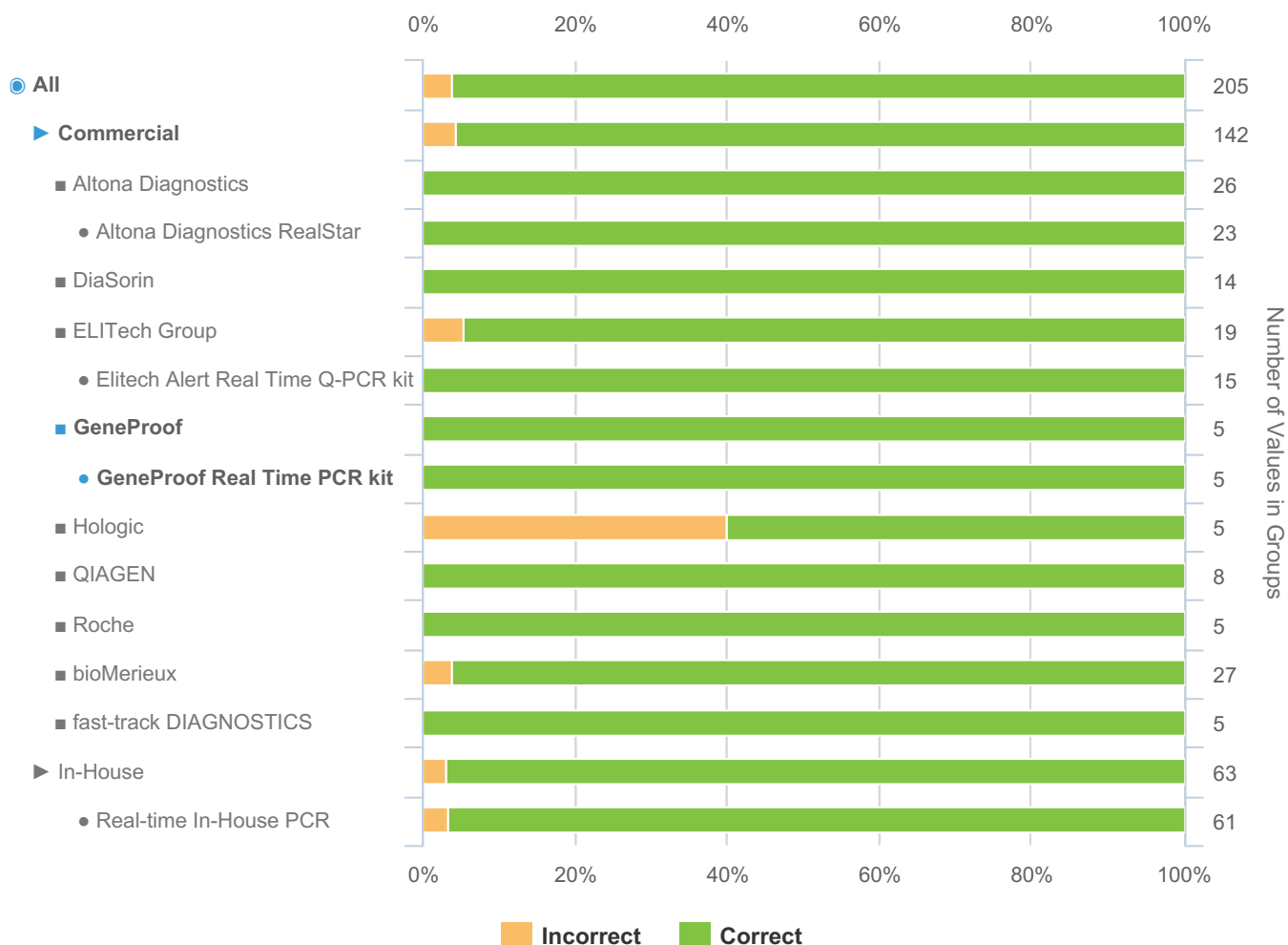| **Catalogue Code:** QAV994105 | **Ref Code:** HSVDNA22 | **Challenge:** C2 | **Analysis Type:** Qualitative | **Dataset:** 565612 | **Report UID:** 2677/565612/4858 | **Laboratory** CZ023 |

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), Abacus Diagnostica (n=2), Abacus Diagnostica - Abacus GenomeEra (n=2), Altona Diagnostics - Altona Diagnostics AltoStar (n=3), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics TandemPlex (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD ProbeTec (n=3), Bio-Evoluation (n=1), Bio-Evoluation - Bio-Evolution Real Time PCR (n=1), BioGX (n=3), BioGX - BioGX Sample-Ready (n=3), Cepheid (n=1), Cepheid - Cepheid Xpert kit (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real Time kit (n=4), Luminex (n=2), Luminex - Luminex ARIES (n=2), Progenie Molecular (n=1), Progenie Molecular - Progenie Molecular RealCycler (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Roche - Roche Cobas 4800 (n=3), Roche - Roche Cobas TaqMan (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Seegene (n=3), Seegene - Seegene Allplex (n=2), Seegene - Seegene Seeplex (n=1), TIB MOLBIOL (n=3), TIB MOLBIOL - TIB MOLBIOL LightMix (n=3), In-House - Conventional In-House PCR (n=2)

Groups Rolled Up: DiaSorin - DiaSorin Simplexa (n=14), Hologic - Hologic Aptima (n=5), QIAGEN - QIAGEN Artus Real Time (n=8), bioMerieux - bioMerieux R-gene Quant Kit (n=27), fast-track DIAGNOSTICS - FTD real time PCR (n=5)

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Page 11 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

| Catalogue Code: QAV994105 | Ref Code: HSVDNA22 | Challenge: C2 | Analysis Type: Qualitative | Dataset: 565612 | Report UID: 2677/565612/4858 | Laboratory CZ023 |

HSVDNA22C2-05 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
HSVDNA22C2-05	HSV-1 (Clinical)	Transport medium	D1, DS1_2	Frequently Detected	CORE	96.1	205

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Page 12 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Individual Report	QCMD 2022 Herpes simplex virus DNA EQA Programme	QCMD Quality Control for Molecular Diagnostics

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), Abacus Diagnostica (n=2), Abacus Diagnostica - Abacus GenomeEra (n=2), Altona Diagnostics - Altona Diagnostics AltoStar (n=3), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics TandemPlex (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD ProbeTec (n=3), Bio-Evoluation (n=1), Bio-Evoluation - Bio-Evolution Real Time PCR (n=1), BioGX (n=3), BioGX - BioGX Sample-Ready (n=3), Cepheid (n=1), Cepheid - Cepheid Xpert kit (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real Time kit (n=4), Luminex (n=2), Luminex - Luminex ARIES (n=2), Progenie Molecular (n=1), Progenie Molecular - Progenie Molecular RealCycler (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Roche - Roche Cobas 4800 (n=3), Roche - Roche Cobas TaqMan (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Seegene (n=3), Seegene - Seegene Allplex (n=2), Seegene - Seegene Seeplex (n=1), TIB MOLBIOL (n=3), TIB MOLBIOL - TIB MOLBIOL LightMix (n=3), In-House - Conventional In-House PCR (n=2)

Groups Rolled Up: DiaSorin - DiaSorin Simplexa (n=14), Hologic - Hologic Aptima (n=5), QIAGEN - QIAGEN Artus Real Time (n=8), bioMerieux - bioMerieux R-gene Quant Kit (n=27), fast-track DIAGNOSTICS - FTD real time PCR (n=5)

Additional Educational Samples Information

The following section has been categorised as shown below:

Educational ► Qualitative

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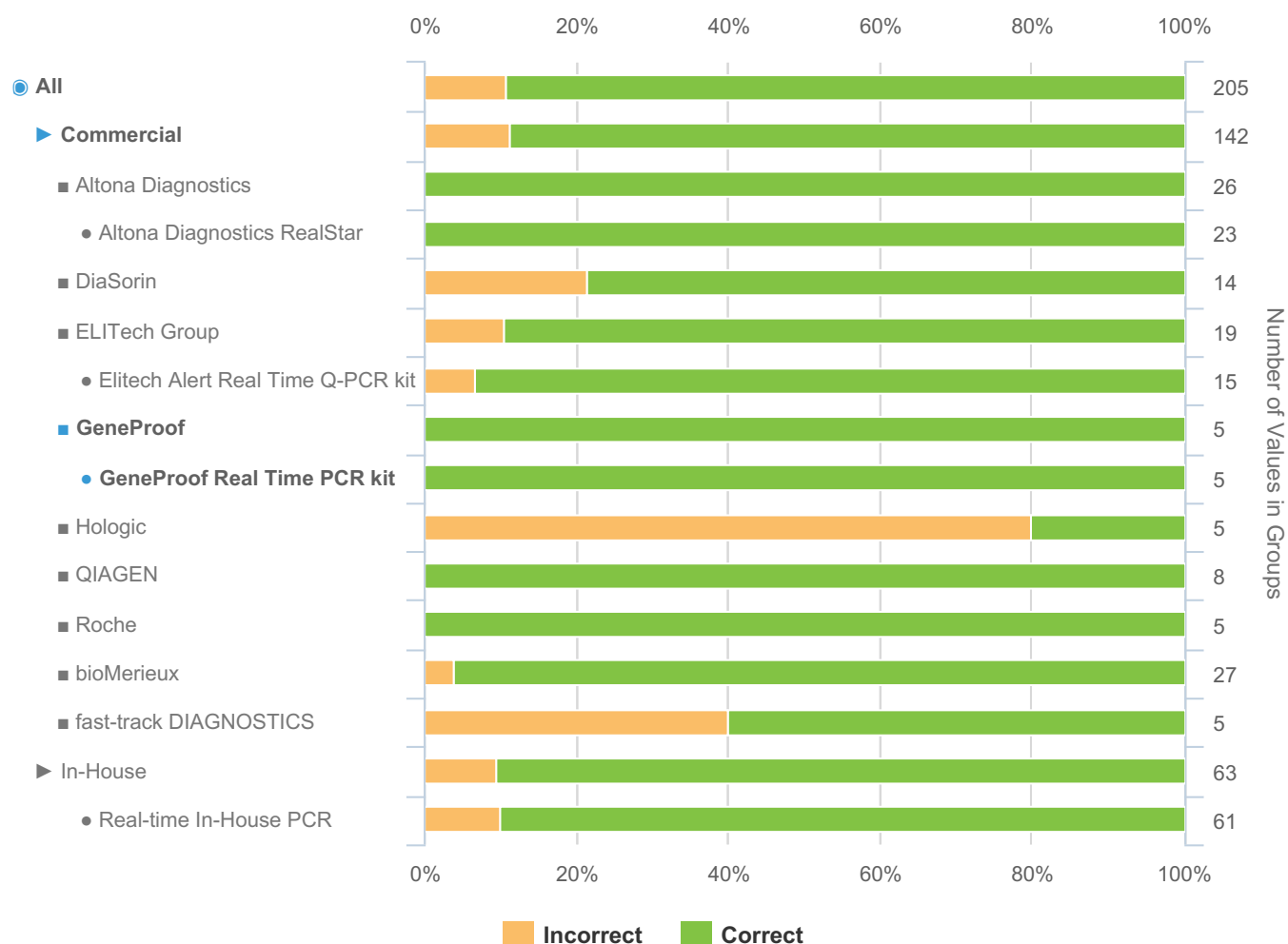
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or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

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Page 13 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
A UKAS accredited proficiency testing provider No.4385

Individual Report	QCMD 2022 Herpes simplex virus DNA EQA Programme	

Catalogue Code: QAV994105	Ref Code: HSVDNA22	Challenge: C2	Analysis Type: Qualitative	Dataset: 565612	Report UID: 2677/565612/4858	Laboratory CZ023

HSVDNA22C2-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
HSVDNA22C2-03	HSV-1 (Clinical)	Transport medium	DS1_3	Detected	EDUCATIONAL	89.3	205

| Catalogue Code: QAV994105 | Ref Code: HSVDNA22 | Challenge: C2 | Analysis Type: Qualitative | Dataset: 565612 | Report UID: 2677/565612/4858 | Laboratory CZ023 |

Groups below n=5: AB Analitica (n=2), AB Analitica - AB Analitica REALQUALITY RQ (n=2), Abacus Diagnostica (n=2), Abacus Diagnostica - Abacus GenomeEra (n=2), Altona Diagnostics - Altona Diagnostics AltoStar (n=3), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics TandemPlex (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD ProbeTec (n=3), Bio-Evoluation (n=1), Bio-Evoluation - Bio-Evolution Real Time PCR (n=1), BioGX (n=3), BioGX - BioGX Sample-Ready (n=3), Cepheid (n=1), Cepheid - Cepheid Xpert kit (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real Time kit (n=4), Luminex (n=2), Luminex - Luminex ARIES (n=2), Progenie Molecular (n=1), Progenie Molecular - Progenie Molecular RealCycler (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Roche - Roche Cobas 4800 (n=3), Roche - Roche Cobas TaqMan (n=2), Sacace (n=2), Sacace - Sacace Real TM (n=2), Seegene (n=3), Seegene - Seegene Allplex (n=2), Seegene - Seegene Seeplex (n=1), TIB MOLBIOL (n=3), TIB MOLBIOL - TIB MOLBIOL LightMix (n=3), In-House - Conventional In-House PCR (n=2)

Groups Rolled Up: DiaSorin - DiaSorin Simplexa (n=14), Hologic - Hologic Aptima (n=5), QIAGEN - QIAGEN Artus Real Time (n=8), bioMerieux - bioMerieux R-gene Quant Kit (n=27), fast-track DIAGNOSTICS - FTD real time PCR (n=5)

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Page 15 of 15

Issue Date: 29 Sep 2022
Report authorised by the QCMD Executive (2)
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