

Individual Report

QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme



Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory -
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NOTE: Summary information only.

Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships ^[1]	Detection Frequency ^[2]	Sample Status ^[3]	Percentage Correct (All) ^[4]	
						(%)	(n)
HPVPRES23S-01	HPV18 (Hela)	PreservCyt + BSM	D2, DS1_1	Frequently Detected	CORE	98.2	219
HPVPRES23S-02	HPV18 (Hela)	PreservCyt + BSM	DS1_2	Frequently Detected	CORE	95.9	219
HPVPRES23S-03	HPV18 (Hela)	PreservCyt + BSM	D2, DS1_1	Frequently Detected	CORE	98.2	219
HPVPRES23S-04	HPV18 (Hela)	PreservCyt + BSM	D2, DS1_1	Frequently Detected	CORE	99.1	219
HPVPRES23S-05	HPV16 (Caski)	PreservCyt + BSM	DS2_3	Detected	EDUCATIONAL	82.2	219
HPVPRES23S-06	Negative	PreservCyt + BSM	-	Negative	CORE	92.7	219
HPVPRES23S-07	HPV16 (Caski)	PreservCyt + BSM	DS2_1	Frequently Detected	CORE	98.6	219
HPVPRES23S-08	HPV45 (CC10b)	PreservCyt + BSM	D1	Detected	CORE	91.3	219
HPVPRES23S-09	HPV16 (Caski)	PreservCyt + BSM	D3, DS2_2	Frequently Detected	CORE	97.3	219
HPVPRES23S-10	HPV45 (CC10b)	PreservCyt + BSM	D1	Detected	CORE	91.3	219
HPVPRES23S-11	Negative	PreservCyt + BSM	-	Negative	CORE	94.5	219
HPVPRES23S-12	HPV16 (Caski)	PreservCyt + BSM	D3, DS2_2	Frequently Detected	CORE	96.3	219

Individual Report	QCMD 2023 Human Papillomavirus (Preservcvt) EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory -

[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]	N/A
Core Panel Detection (Qualitative) Score ^[2]	N/A

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
HPVPRES23S-01	98.2	-	-	-	-	-
HPVPRES23S-02	95.9	-	-	-	-	-
HPVPRES23S-03	98.2	-	-	-	-	-
HPVPRES23S-04	99.1	-	-	-	-	-
HPVPRES23S-06	92.7	-	-	-	-	-
HPVPRES23S-07	98.6	-	-	-	-	-
HPVPRES23S-08	91.3	-	-	-	-	-
HPVPRES23S-09	97.3	-	-	-	-	-
HPVPRES23S-10	91.3	-	-	-	-	-
HPVPRES23S-11	94.5	-	-	-	-	-
HPVPRES23S-12	96.3	-	-	-	-	-

Individual Report	QCMD 2023 Human Papillomavirus (Preservcvt) EQA Programme				 QCMD Quality Control for Molecular Diagnostics	
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[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.

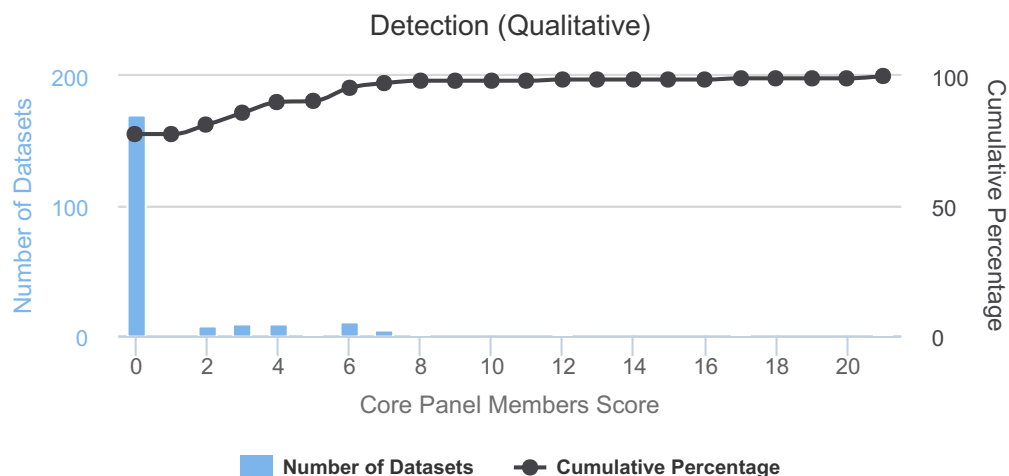
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative results for each panel member.

[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



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.

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
HPVPRES23S-05	82.2	-	-	-	-	-

Individual Report	QCMD 2023 Human Papillomavirus (PreservCyt) EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory -

[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.

Further Programme Details

Number of Participants	186
Number of Countries	34
Number of Respondents	171
Number of Datasets Submitted	219
Qualitative Results Returned	219 (100.0%)

EQA Programme Aims

To assess the proficiency of laboratories in the detection of different high risk human papillomavirus (HPV) types within a PreservCyt® matrix.

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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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.

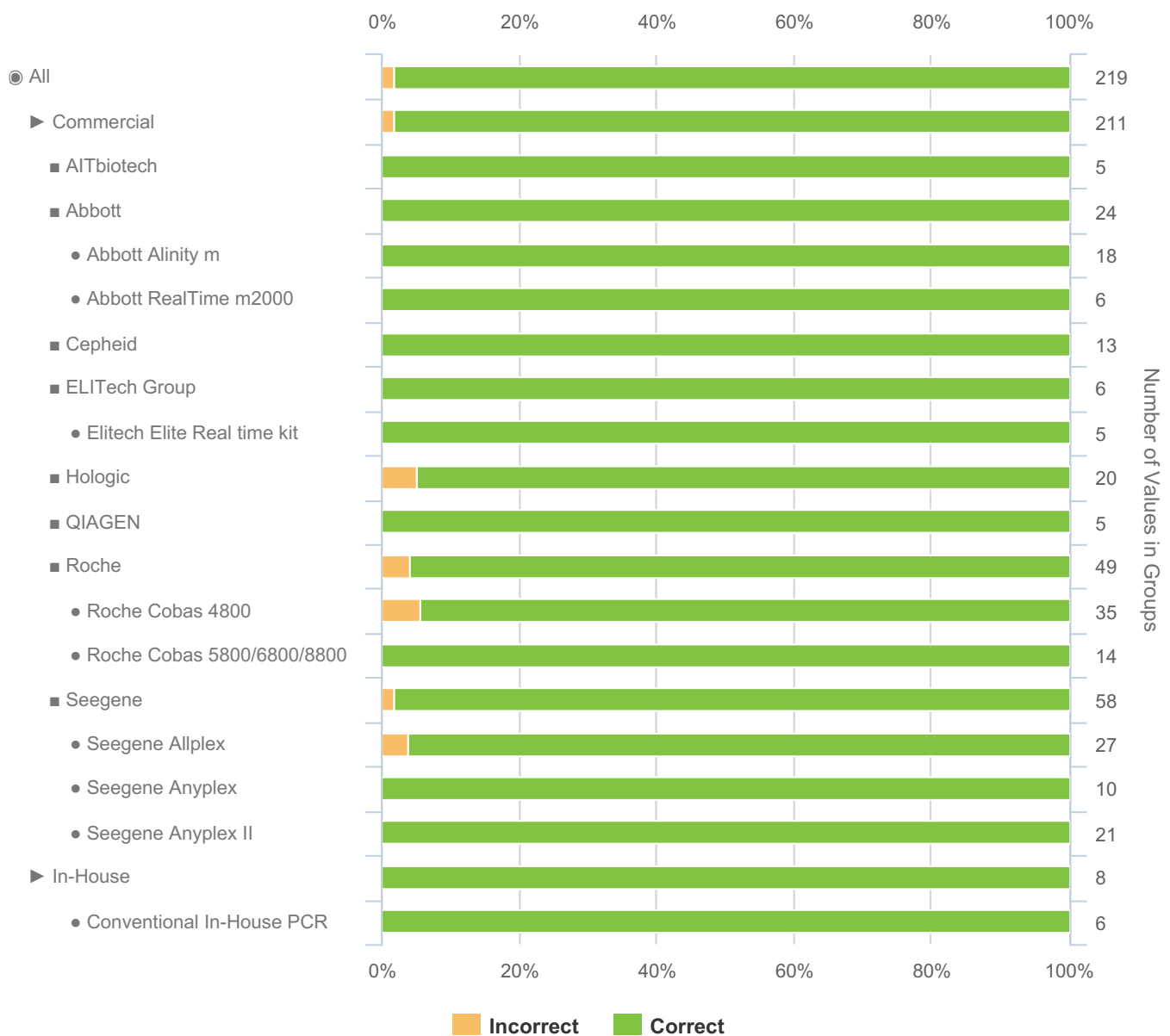
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or 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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HPVPRES23S-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-01	HPV18 (Hela)	PreservCyt + BSM	D2, DS1_1	Frequently Detected	CORE	98.2	219



Individual Report

QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme



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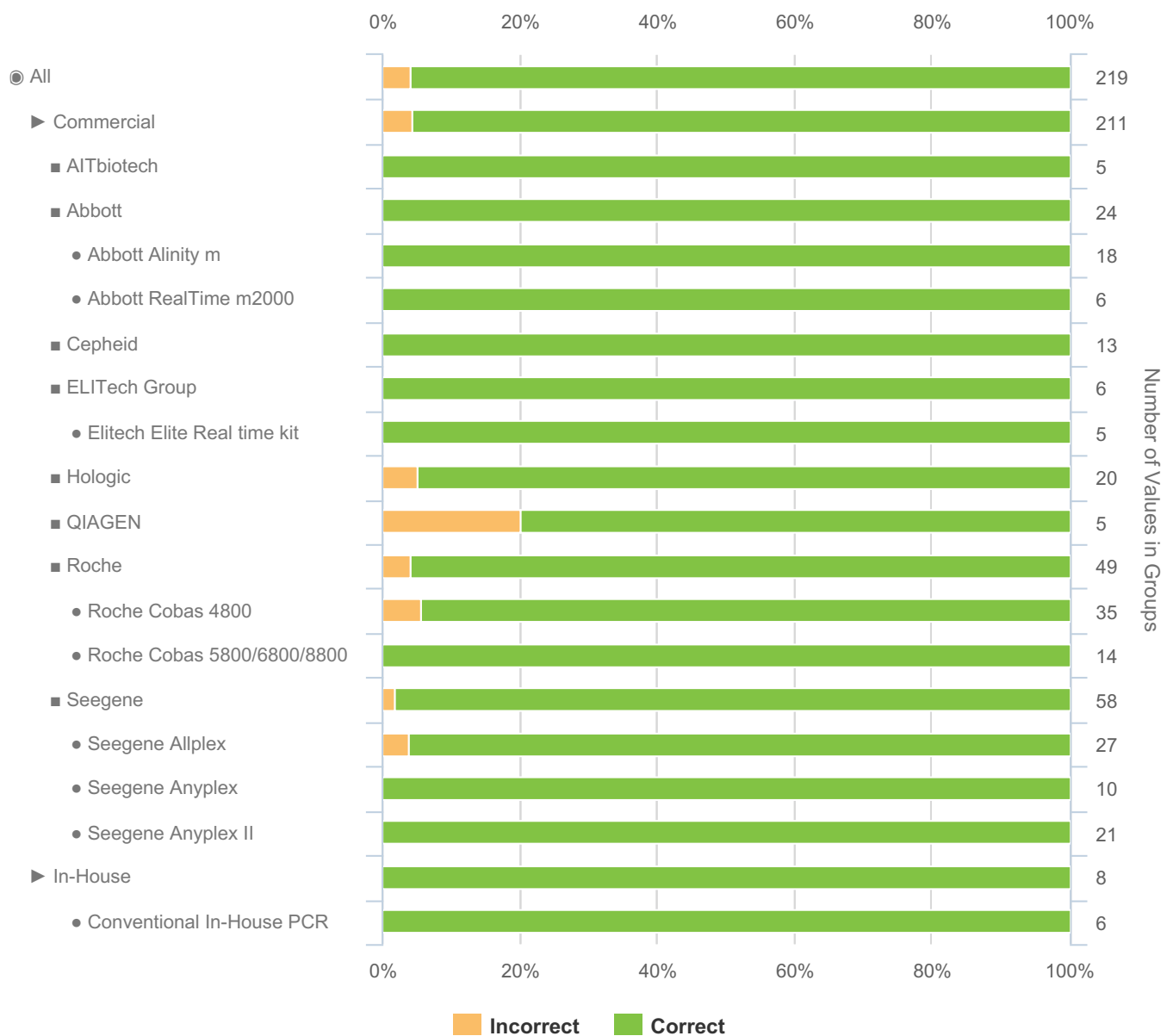
Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

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HPVPRES23S-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-02	HPV18 (Hela)	PreservCyt + BSM	DS1_2	Frequently Detected	CORE	95.9	219



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	Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170

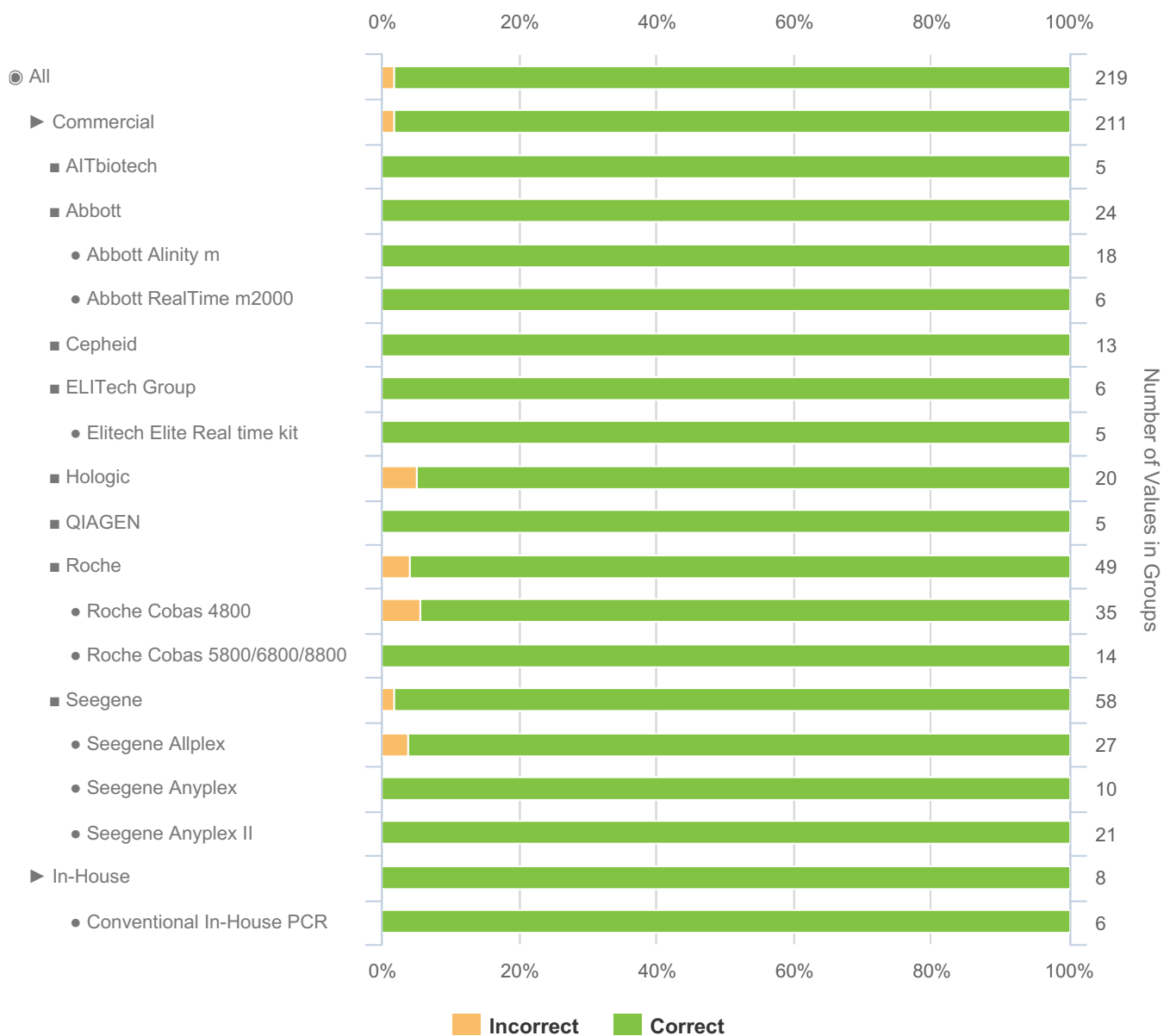
Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

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HPVPRES23S-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-03	HPV18 (Hela)	PreservCyt + BSM	D2, DS1_1	Frequently Detected	CORE	98.2	219



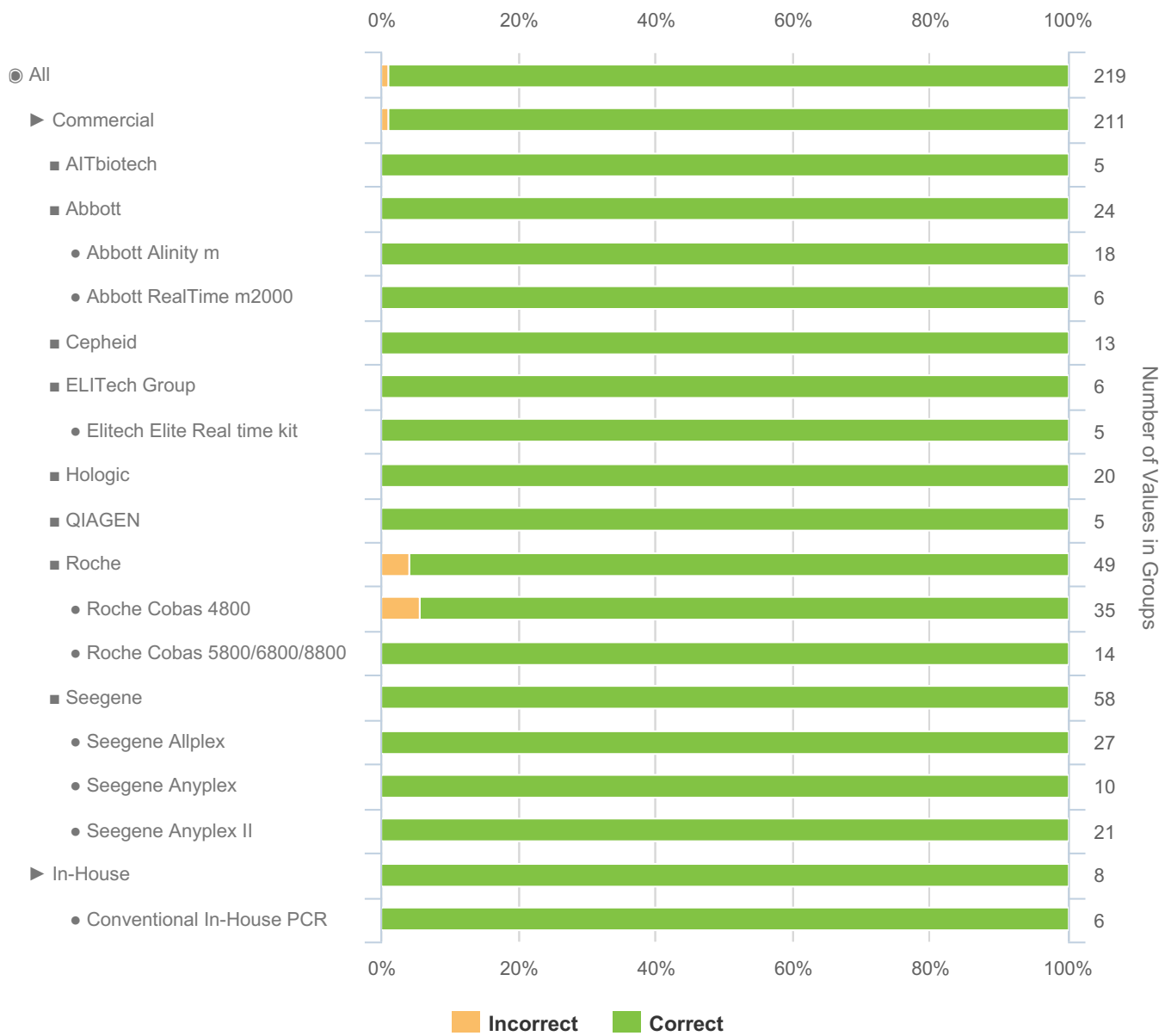
Individual Report	QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme					
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Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

HPVPRES23S-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-04	HPV18 (Hela)	PreservCyt + BSM	D2, DS1_1	Frequently Detected	CORE	99.1	219



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Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory: -

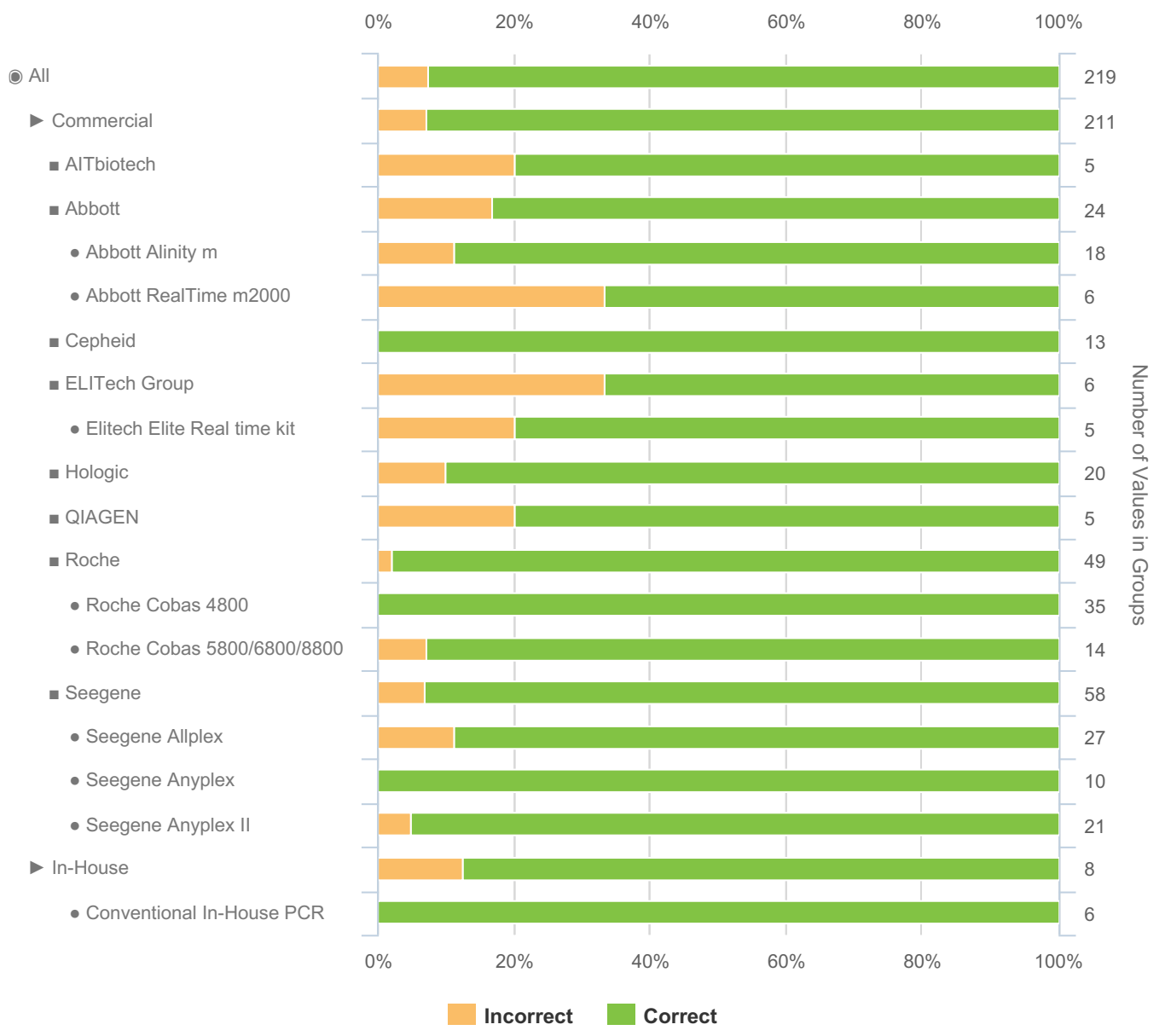
Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

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HPVPRES23S-06 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-06	Negative	PreservCyt + BSM	-	Negative	CORE	92.7	219



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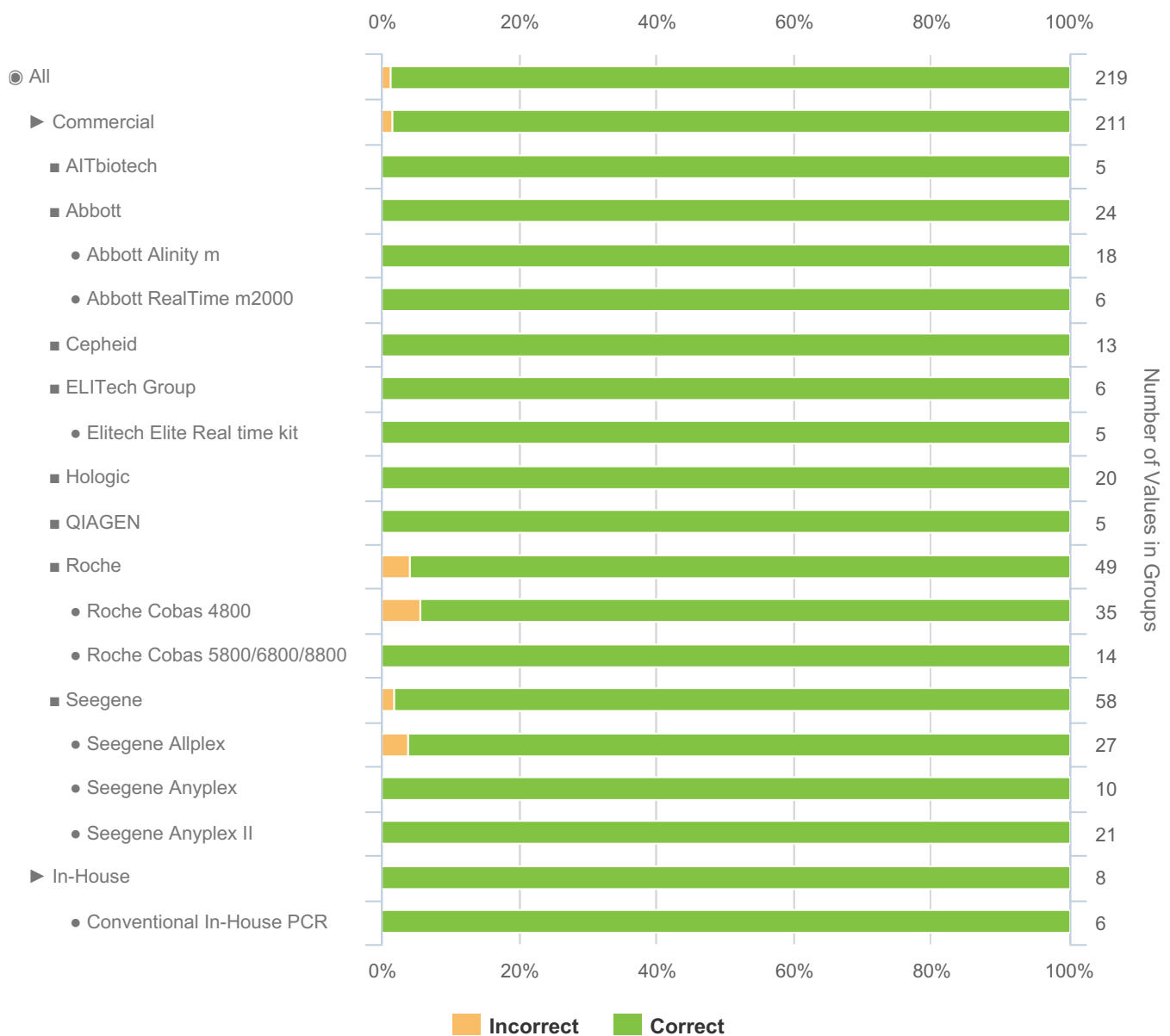
Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory: -
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HPVPRES23S-07 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-07	HPV16 (Caski)	PreservCyt + BSM	DS2_1	Frequently Detected	CORE	98.6	219



Individual Report	QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme					
	Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170

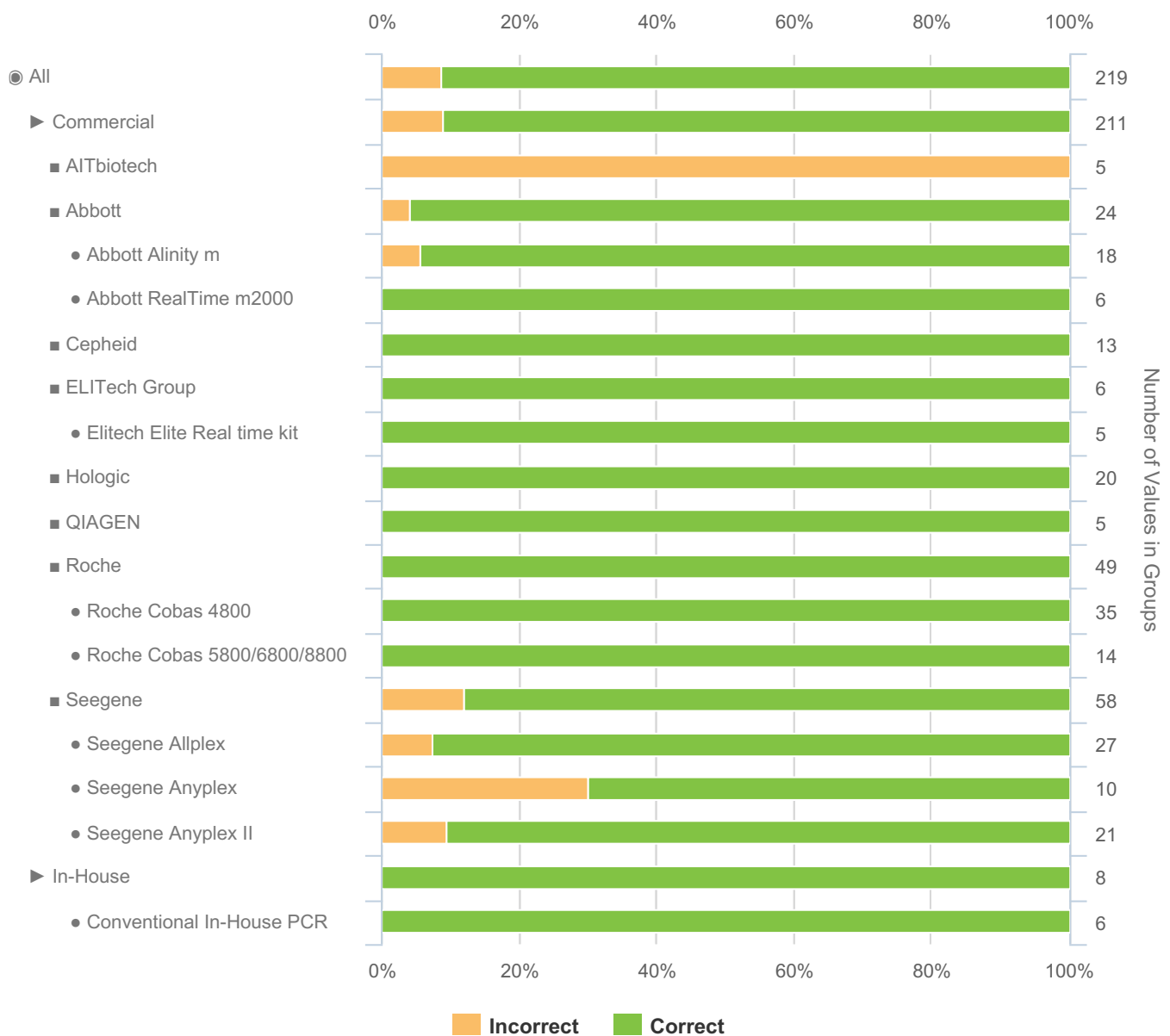
Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory: -
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HPVPRES23S-08 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-08	HPV45 (CC10b)	PreservCyt + BSM	D1	Detected	CORE	91.3	219



Individual Report	QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory: -

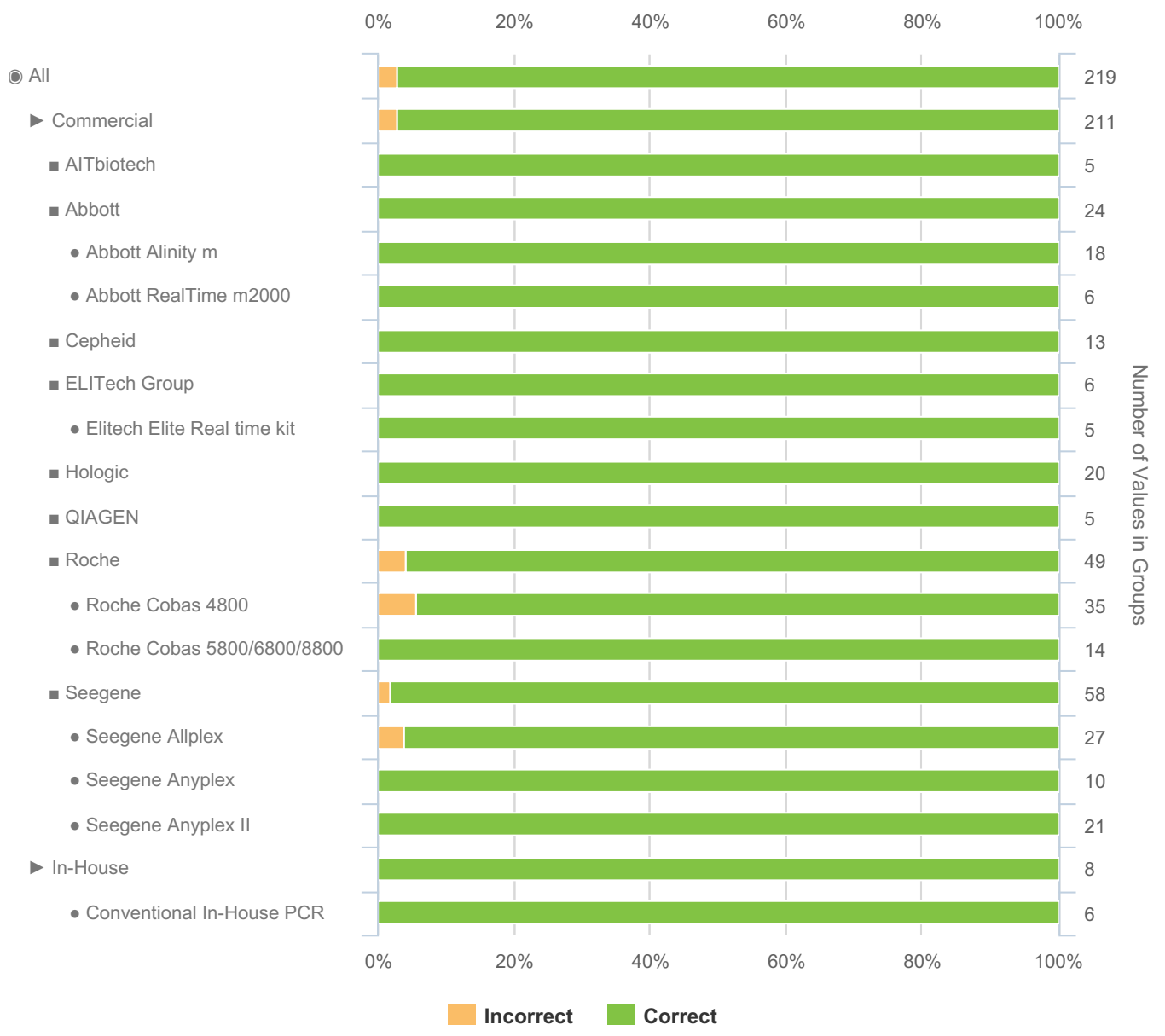
Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory: -
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HPVPRES23S-09 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-09	HPV16 (Caski)	PreservCyt + BSM	D3, DS2_2	Frequently Detected	CORE	97.3	219



Individual Report	QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory -

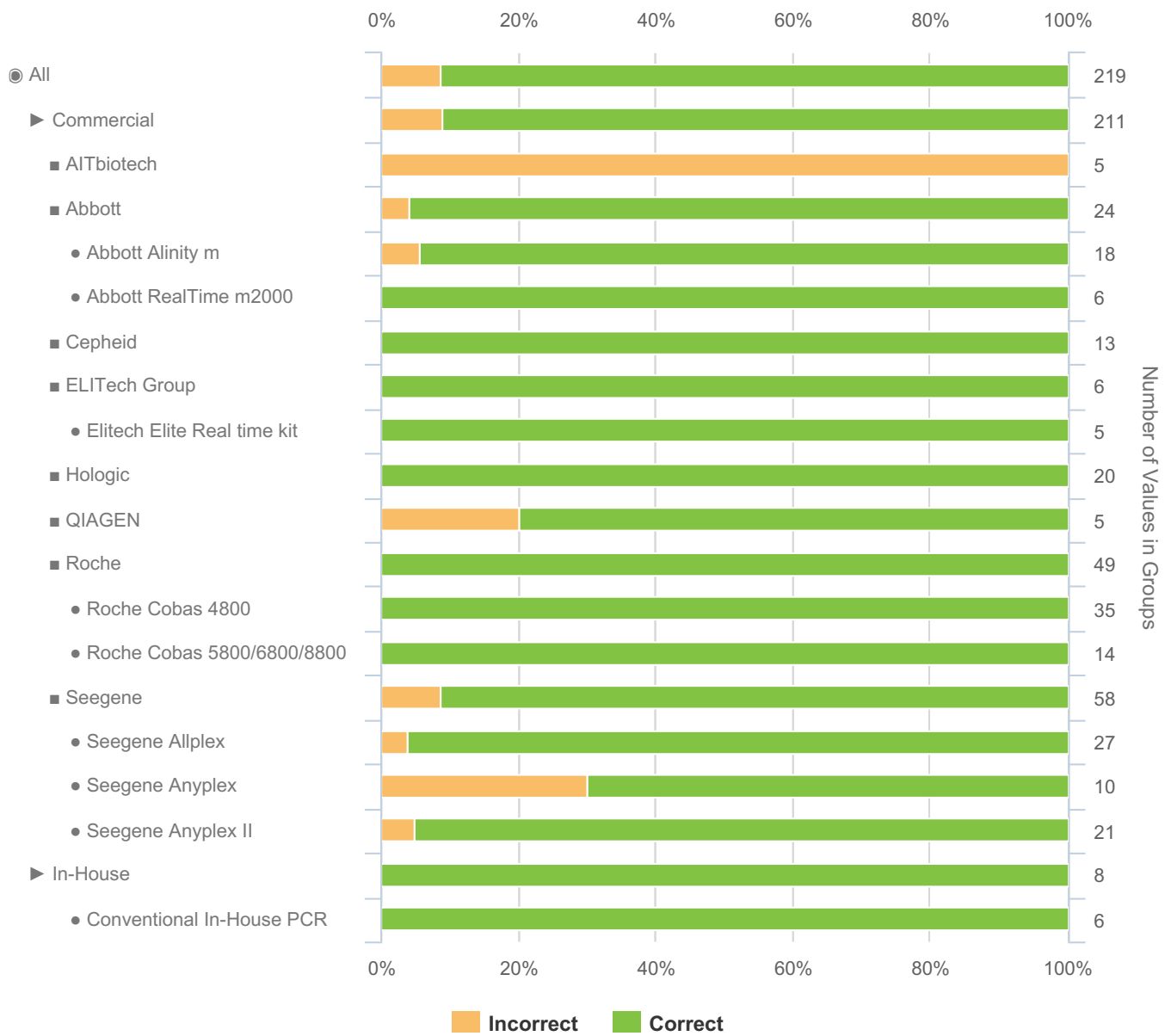
Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

Individual Report	QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme				 Quality Control for Molecular Diagnostics	
Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory -

HPVPRES23S-10 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-10	HPV45 (CC10b)	PreservCyt + BSM	D1	Detected	CORE	91.3	219



Individual Report	QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme					
	Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170

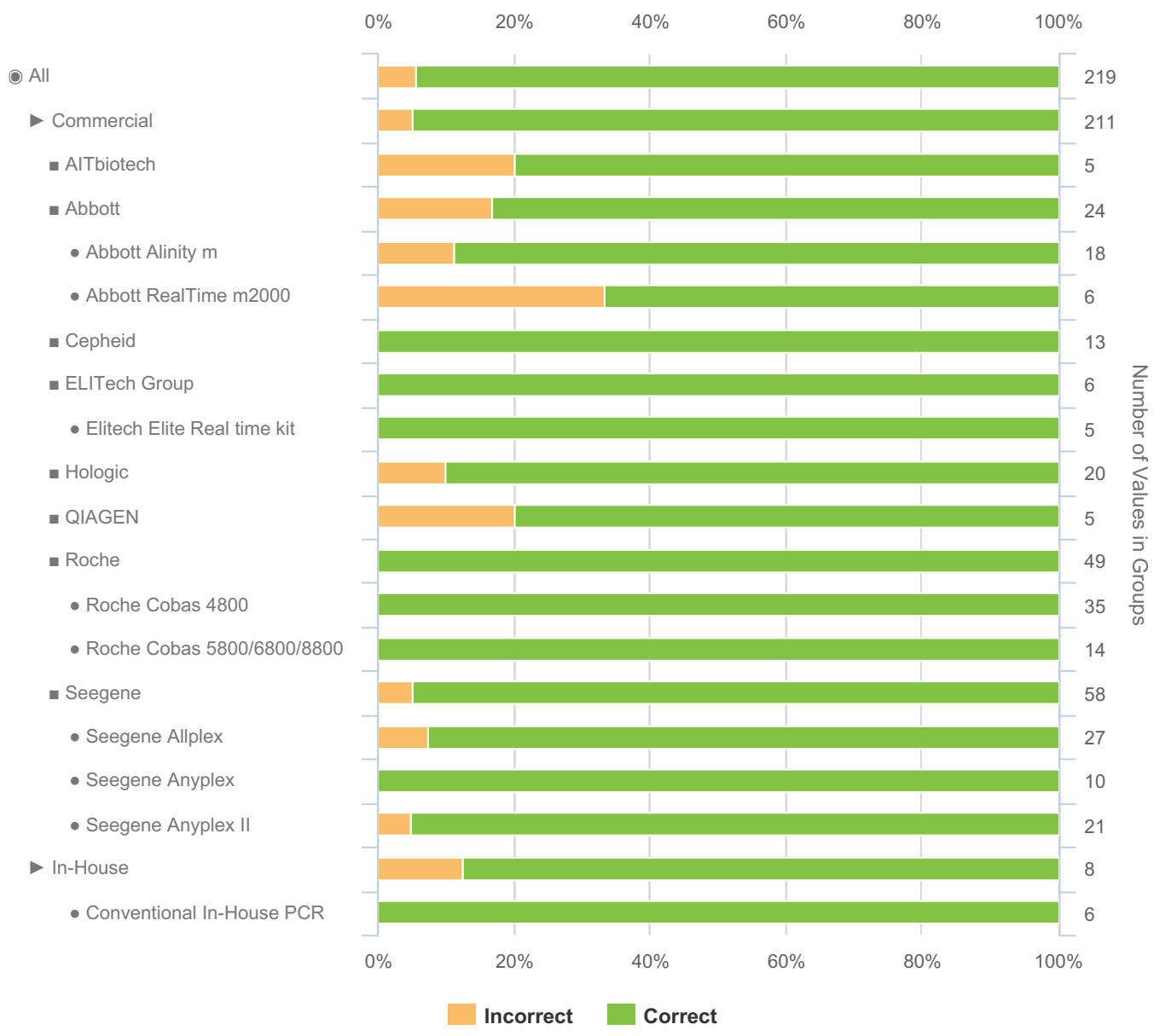
Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

Individual Report	QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme				 QCMD Quality Control for Molecular Diagnostics	
Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory -

HPVPRES23S-11 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-11	Negative	PreservCyt + BSM	-	Negative	CORE	94.5	219



Individual Report	QCMD 2023 Human Papillomavirus (Preservcyt) EQA Programme					
	Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170

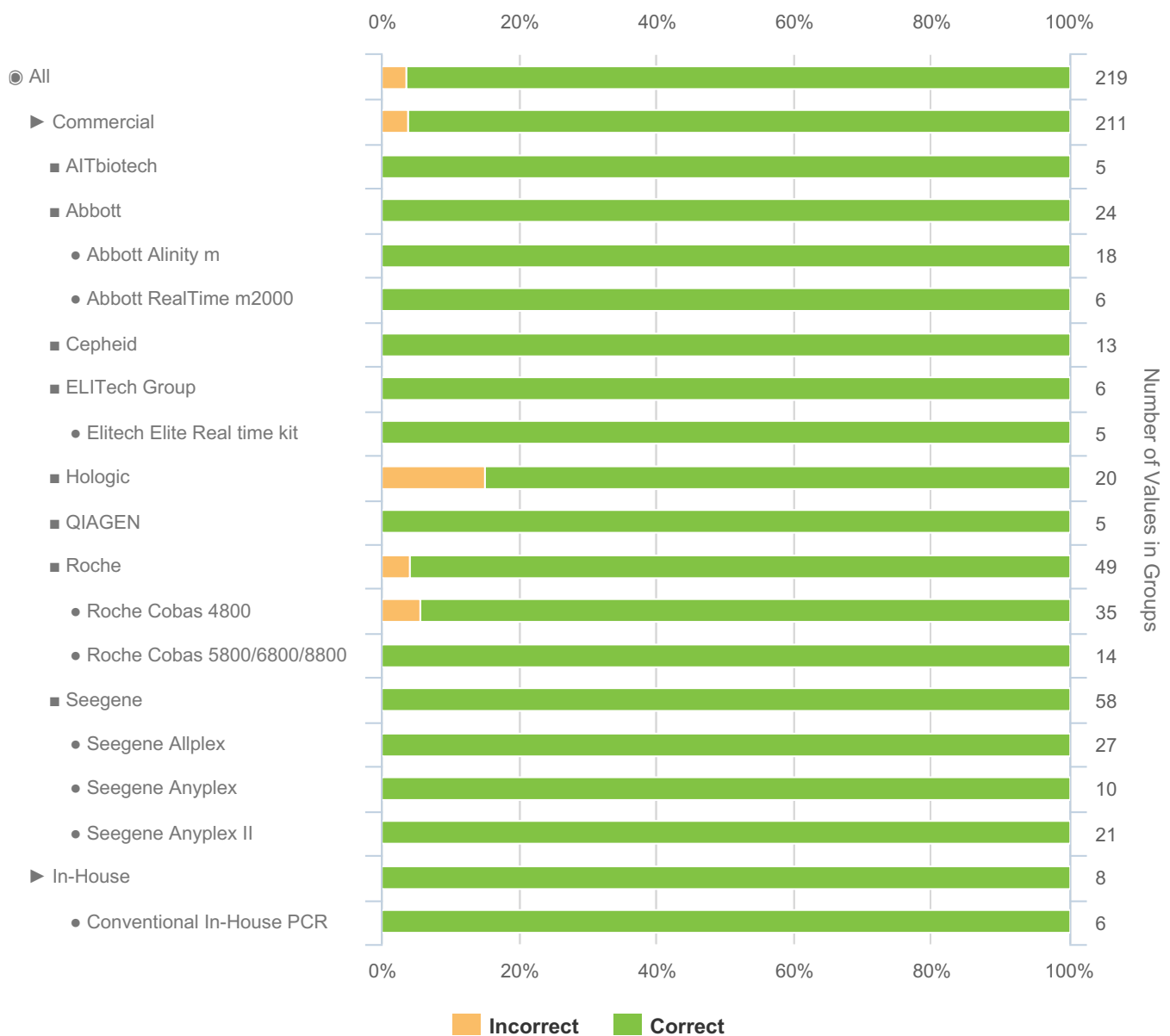
Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory: -
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HPVPRES23S-12 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-12	HPV16 (Caski)	PreservCyt + BSM	D3, DS2_2	Frequently Detected	CORE	96.3	219



Individual Report	QCMD 2023 Human Papillomavirus (Preservcvt) EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory -

Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

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.

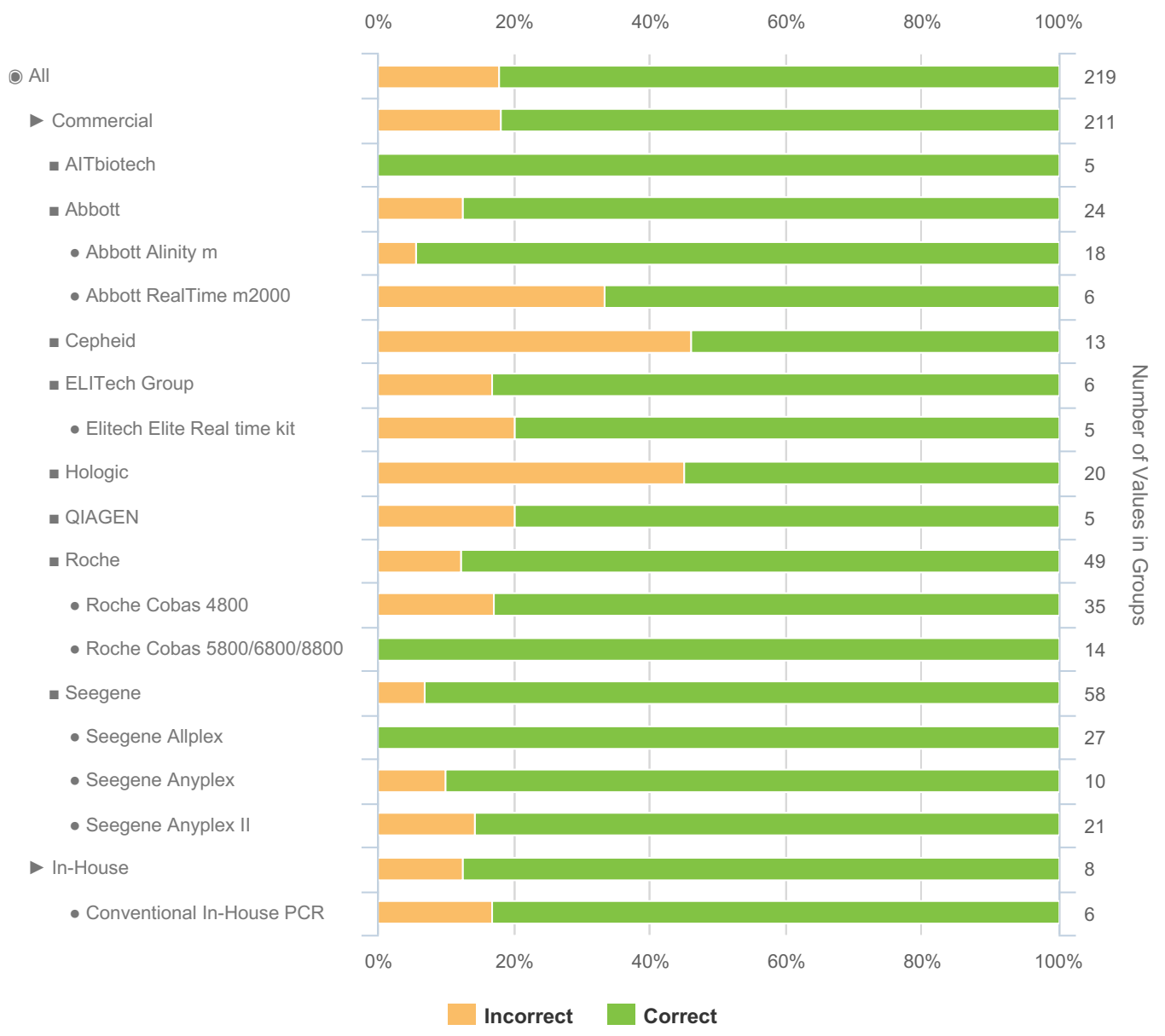
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or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

Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory: -
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HPVPRES23S-05 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
HPVPRES23S-05	HPV16 (Caski)	PreservCyt + BSM	DS2_3	Detected	EDUCATIONAL	82.2	219



Individual Report

QCMD 2023 Human Papillomavirus (Preservcvt) EQA Programme



Catalogue Code: QAV094130	Ref Code: HPVPRES23	Challenge: S	Analysis Type: Custom	Dataset: -	Report UID: -/-/6170	Laboratory -
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Groups below n=5: AB Analytica (n=1), AB Analytica - AB Analytica REALQUALITY RQ (n=1), Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), Atila BioSystems (n=1), Atila BioSystems - Atila BioSystems AmpFire (n=1), BD Molecular Diagnostics (n=3), BD Molecular Diagnostics - BD Onclarity (n=3), BIOEKSEN (n=1), BIOEKSEN - BIOEKSEN Real Time PCR (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad Dx (n=1), BioPerfectus (n=1), BioPerfectus - bioPerfectus Real Time PCR (n=1), Certest (n=4), Certest - Certest Real Time PCR (n=4), DDL Diagnostic Laboratory (n=1), DDL Diagnostic Laboratory - DDL PCR Reagents (n=1), ELITech Group - Elitech Elite Real Time kit (n=1), Fujirebio (n=2), Fujirebio - Fujirebio INNO-LiPA (n=2), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Genematrix (n=2), Genematrix - Genematrix NeoPlex kit (n=2), Genomica (n=1), Genomica - Genomica CLART (n=1), Iontek (n=1), Iontek - Iontek Fluorion (n=1), MOLE Biosciences (n=1), MOLE Biosciences - MOLE Biosciences Real Time PCR (n=1), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), Panagene (n=1), Panagene - Panagene PANA RealTyper (n=1), QIAGEN - QIAGEN Artus Real Time (n=1), QIAGEN - QIAGEN Digene HC (n=2), QIAGEN - Qiagen NeuMoDx (n=1), QIAGEN - Qiagen QIAstat-Dx (n=1), Sacace (n=1), Sacace - Sacace Real TM (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), Vitro Master Diagnostica (n=1), Vitro Master Diagnostica - Vitro Master Diagnostica Flow Chip (n=1), Yaneng BIO (n=1), Yaneng BIO - Yaneng BIO PCR Reagents (n=1), ZytoVision (n=1), ZytoVision - ZytoVision VisionArray (n=1), In-House - Real-time In-House PCR (n=2)

Groups Rolled Up: AITbiotech - AITbiotech abTES FLU/COVID-19 (n=5), Cepheid - Cepheid Xpert kit (n=13), Hologic - Hologic Aptima (n=20)

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