Individual Report	QCMD 2018 Chlamydophila pneumoniae EQA Programme

Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAB084107	CP18	S	Qualitative	219074	2677/219074/1485	CZ023

Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Detection Frequency [2]	Sample Status [3]	Percentage Correct (All) [4]	
						(%)	*(n)*
CP18S-01	C. pneumoniae	Synthetic BAL	DS1_3	Infrequently Detected	EDUCATIONAL	54.5	178
CP18S-02	C. pneumoniae	Synthetic BAL	DS1_2	Detected	CORE	92.1	178
CP18S-03	C. pneumoniae	Synthetic BAL	DS1_1	Frequently Detected	CORE	96.6	178
CP18S-04	CP Negative	Synthetic BAL		Negative	CORE	98.9	178
CP18S-05	C. pneumoniae	Transport Medium		Frequently Detected	CORE	96.1	178

[1] **Sample Relationships:** Indicates the relationships of the samples within this challenge. Dilution series are indicted 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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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
CP18S-02	92.1	Positive	0		N/A	32.65
CP18S-03	96.6	Positive	0		N/A	31.74
CP18S-04	98.9	Negative	0		N/A	-
CP18S-05	96.1	Positive	0		N/A	31.35

[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.

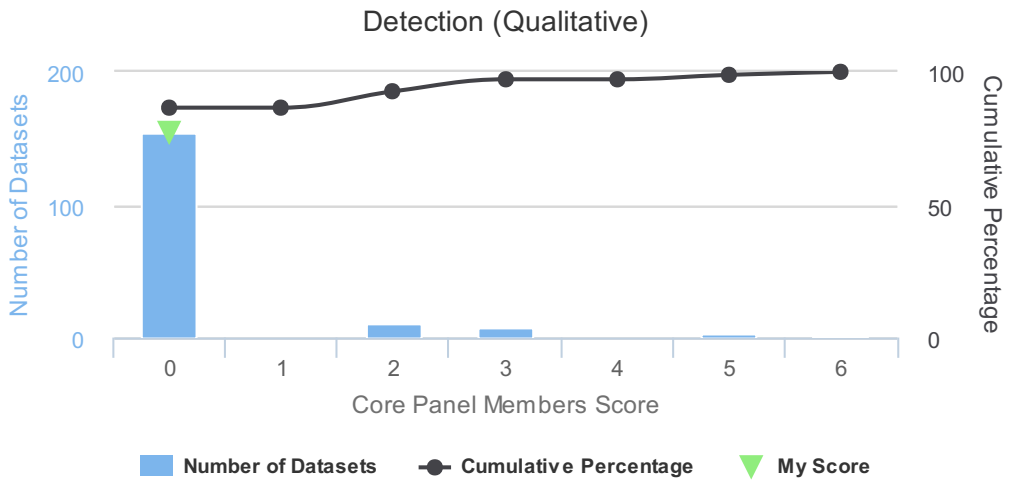
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative results for each panel member.

[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.

My Workflow Details

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

Name	GeneProof Chlamydia pneumoniae PCR Kit (copy) (v3)
Description	
Targets	B Chlamydophila pneumoniae
Assays	*Extraction* - Manual Extraction Process • Commercial ◦ Kit Manufacturer: *GeneProof* ◦ Kit Type: *PathogenFree DNA Isolation Kit* *Amplification* - GeneProof - croBEE Real-Time PCR System • Commercial ◦ Kit Manufacturer: *GeneProof* ◦ Kit Type: *Chlamydia pneumoniae PCR Kit* ◦ Kit Version: *ISEX*

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
CP18S-01	54.5	Positive	0		N/A	38.0

[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	176
Number of Countries	31
Number of Respondents	162
Number of Datasets Submitted	178
Qualitative Results Returned	178 (100.0%)

EQA Programme Aims

To assess the proficiency of laboratories in the correct detection of *Chlamydophila pneumoniae* (*C. pneumoniae*).

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).

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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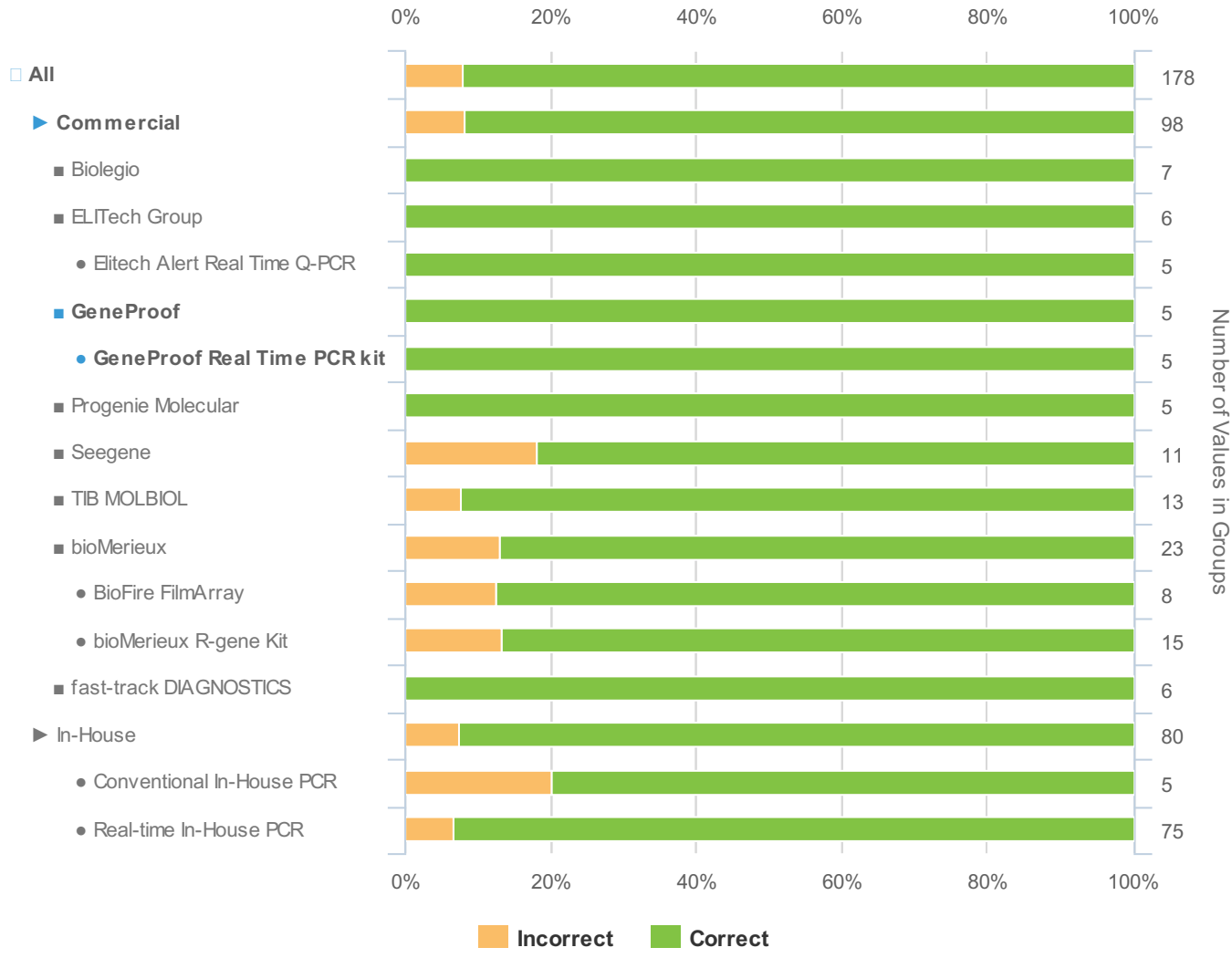
CP18S-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
CP18S-02	C. pneumoniae	Synthetic BAL	DS1_2	Detected	CORE	92.1	178



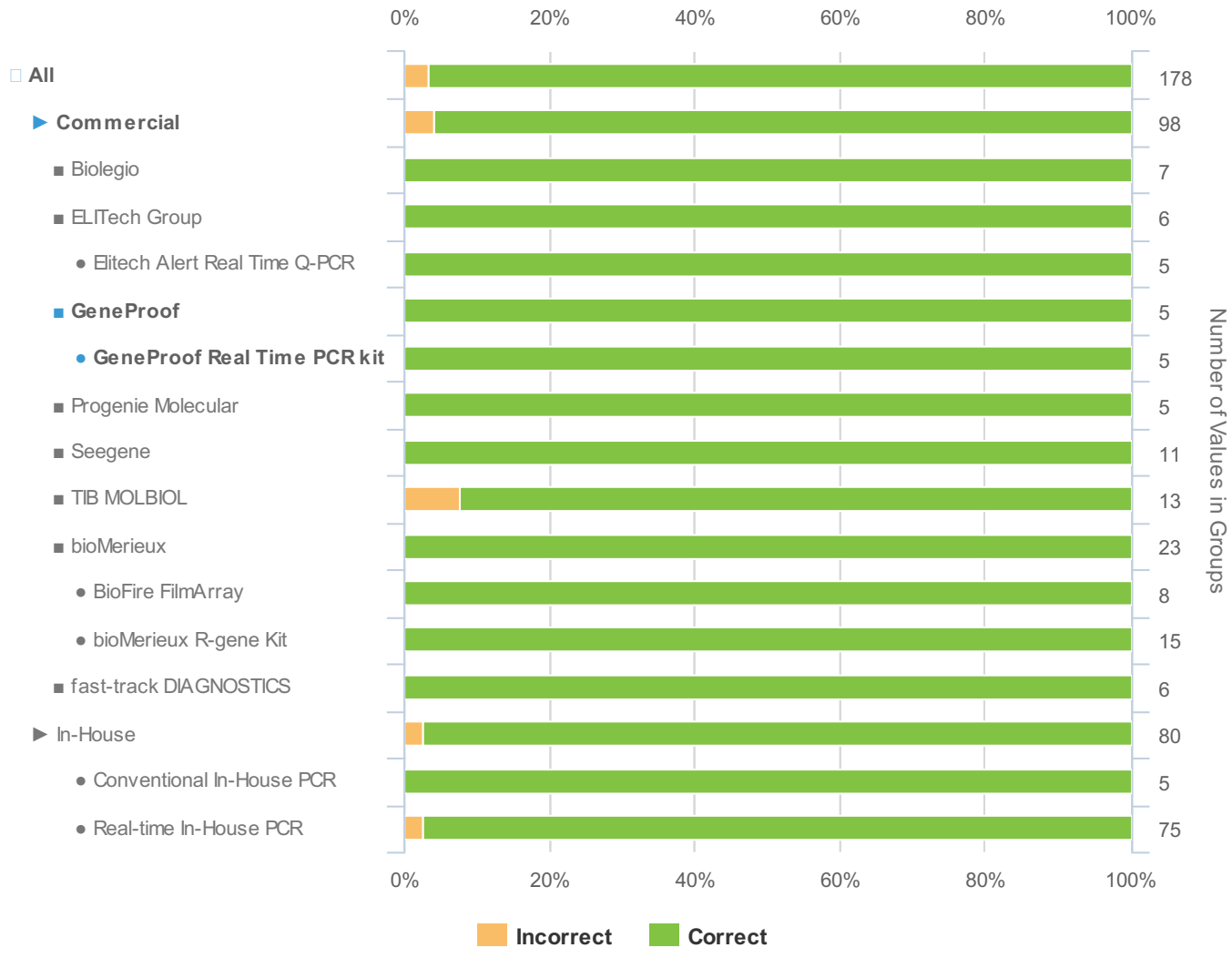
Groups below n=5: AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BioGX (n=2), BioGX - BioGX Sample-Ready (n=2), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real time kit (n=1), GenMark Dx (n=2), GenMark Dx - GenMark DX ePlex (n=2), Hologic (n=1), Hologic - Hologic Prodesse Pro (n=1), Luminex (n=2), Luminex - Luminex xTAG (n=2), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), PathoFinder (n=4), PathoFinder - PathoFinder Real Time PCR (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), Roche (n=2), Roche - Roche LightCycler (n=2), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), vircell (n=1), vircell - vircell Speed-oligo (n=1)

Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAB084107	CP18	S	Qualitative	219074	2677/219074/1485	CZ023

Groups Rolled Up: Biolegio - Biolegio ReadyMax (n=7), Progenie Molecular - Progenie Molecular RealCycler (n=5), Seegene - Seegene Real Time PCR (n=11), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), fast-track DIAGNOSTICS - FTD Real Time PCR (n=6)

CP18S-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
CP18S-03	C. pneumoniae	Synthetic BAL	DS1_1	Frequently Detected	CORE	96.6	178



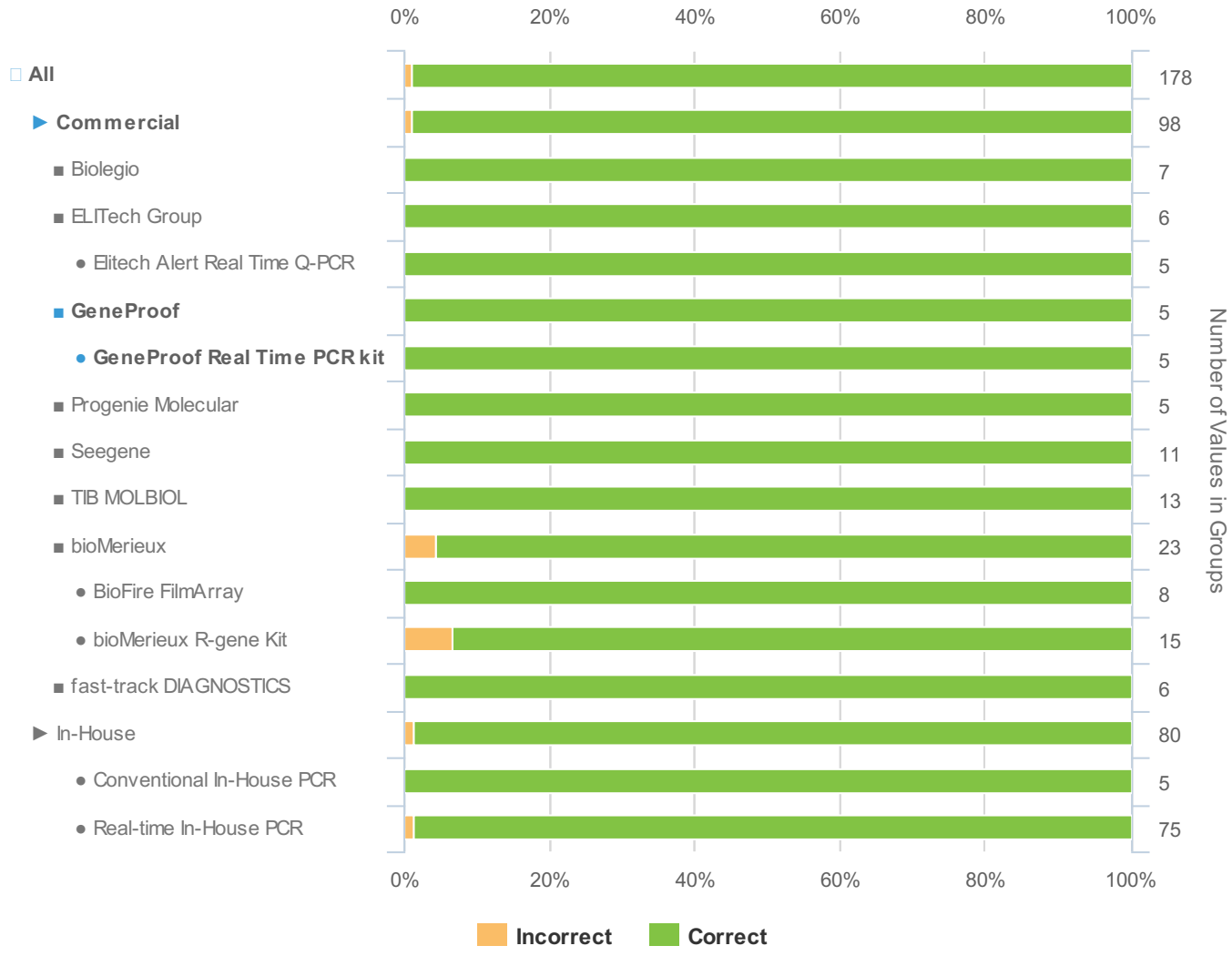
Groups below n=5: AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BioGX (n=2), BioGX - BioGX Sample-Ready (n=2), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real time kit (n=1), GenMark Dx (n=2), GenMark Dx - GenMark DX ePlex (n=2), Hologic (n=1), Hologic - Hologic Prodesse Pro (n=1), Luminex (n=2), Luminex - Luminex xTAG (n=2), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), PathoFinder (n=4), PathoFinder - PathoFinder Real Time PCR (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), Roche (n=2), Roche - Roche LightCycler (n=2), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), vircell (n=1), vircell - vircell Speed-oligo (n=1)

Groups Rolled Up: Biolegio - Biolegio ReadyMax (n=7), Progenie Molecular - Progenie Molecular RealCycler (n=5), Seegene - Seegene Real Time PCR (n=11), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), fast-track DIAGNOSTICS - FTD Real Time PCR (n=6)

Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAB084107	CP18	S	Qualitative	219074	2677/219074/1485	CZ023

CP18S-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
CP18S-04	CP Negative	Synthetic BAL		Negative	CORE	98.9	178

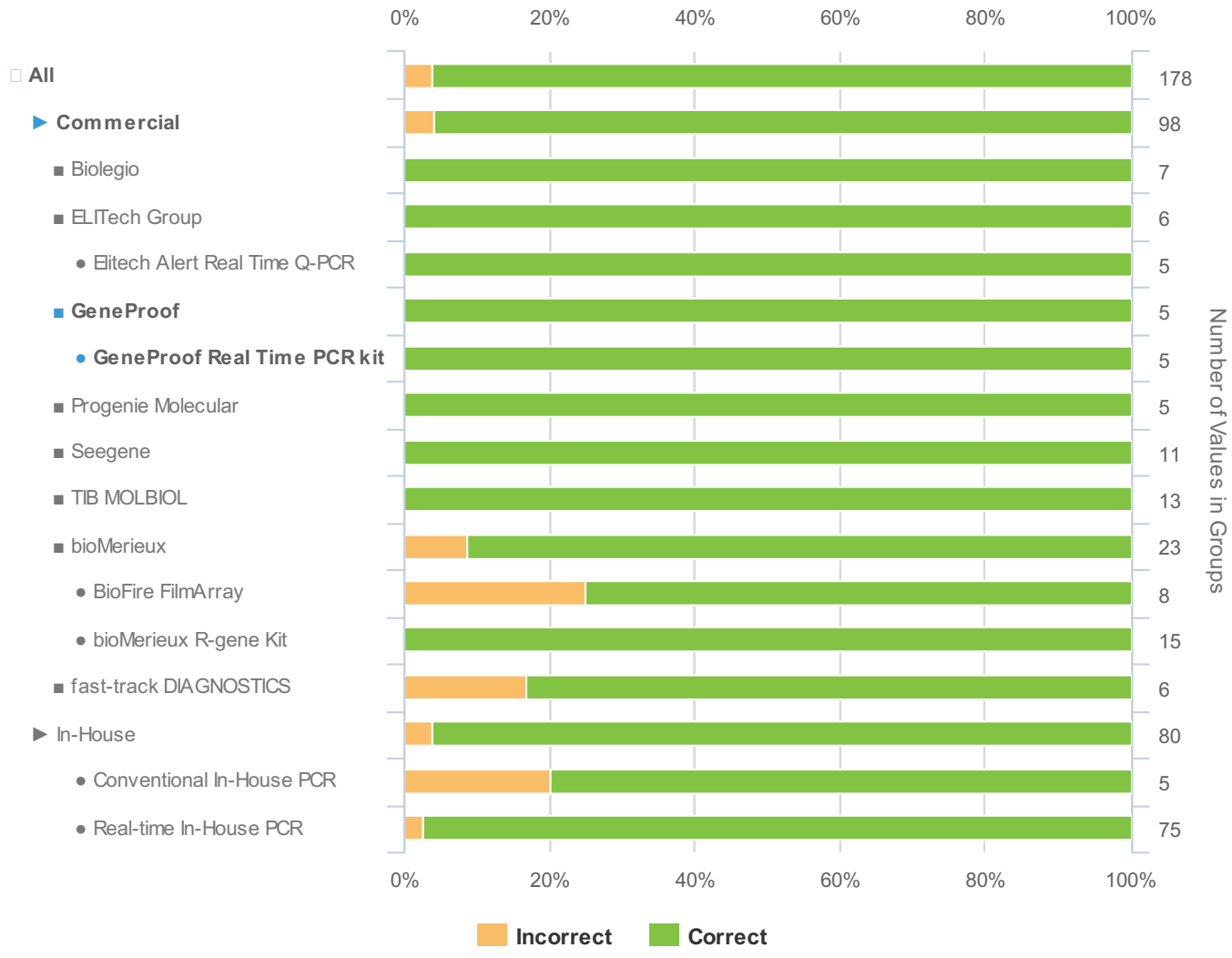


Groups below n=5: AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BioGX (n=2), BioGX - BioGX Sample-Ready (n=2), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real time kit (n=1), GenMark Dx (n=2), GenMark Dx - GenMark DX ePlex (n=2), Hologic (n=1), Hologic - Hologic Prodesse Pro (n=1), Luminex (n=2), Luminex - Luminex xTAG (n=2), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), PathoFinder (n=4), PathoFinder - PathoFinder Real Time PCR (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), Roche (n=2), Roche - Roche LightCycler (n=2), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), vircell (n=1), vircell - vircell Speed-oligo (n=1)

Groups Rolled Up: Biolegio - Biolegio ReadyMax (n=7), Progenie Molecular - Progenie Molecular RealCycler (n=5), Seegene - Seegene Real Time PCR (n=11), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), fast-track DIAGNOSTICS - FTD Real Time PCR (n=6)

CP18S-05 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
CP18S-05	C. pneumoniae	Transport Medium		Frequently Detected	CORE	96.1	178



Groups below n=5: AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BioGX (n=2), BioGX - BioGX Sample-Ready (n=2), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real time kit (n=1), GenMark Dx (n=2), GenMark Dx - GenMark DX ePlex (n=2), Hologic (n=1), Hologic - Hologic Prodesse Pro (n=1), Luminex (n=2), Luminex - Luminex xTAG (n=2), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), PathoFinder (n=4), PathoFinder - PathoFinder Real Time PCR (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), Roche (n=2), Roche - Roche LightCycler (n=2), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), vircell (n=1), vircell - vircell Speed-oligo (n=1)

Groups Rolled Up: Biolegio - Biolegio ReadyMax (n=7), Progenie Molecular - Progenie Molecular RealCycler (n=5), Seegene - Seegene Real Time PCR (n=11), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), fast-track DIAGNOSTICS - FTD Real Time PCR (n=6)

Additional Educational Samples Information

The following section has been categorised as shown below:

Educational ► Qualitative

Individual Panel Member Analysis (Qualitative)

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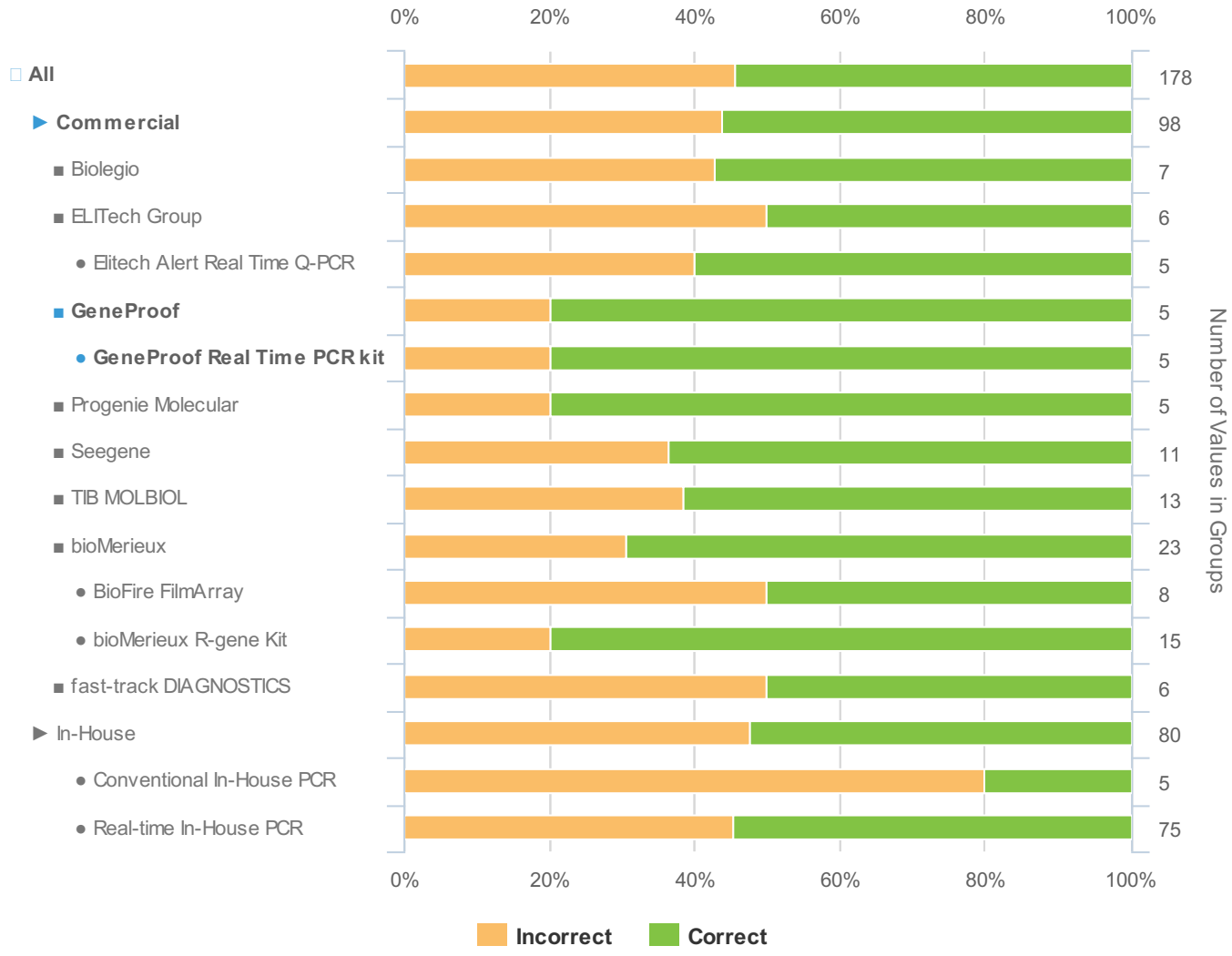
CP18S-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
CP18S-01	C. pneumoniae	Synthetic BAL	DS1_3	Infrequently Detected	EDUCATIONAL	54.5	178



Groups below n=5: AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics Easy-Plex (n=1), BioGX (n=2), BioGX - BioGX Sample-Ready (n=2), Certest (n=1), Certest - Certest Real Time PCR (n=1), Diagenode (n=3), Diagenode - Diagenode Real Time kit (n=3), ELITech Group - Elitech Elite Real time kit (n=1), GenMark Dx (n=2), GenMark Dx - GenMark DX ePlex (n=2), Hologic (n=1), Hologic - Hologic Prodesse Pro (n=1), Luminex (n=2), Luminex - Luminex xTAG (n=2), Master Diagnostica (n=1), Master Diagnostica - Master Diagnostica Flow Chip (n=1), PathoFinder (n=4), PathoFinder - PathoFinder Real Time PCR (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), Roche (n=2), Roche - Roche LightCycler (n=2), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), vircell (n=1), vircell - vircell Speed-oligo (n=1)

Groups Rolled Up: Biolegio - Biolegio ReadyMax (n=7), Progenie Molecular - Progenie Molecular RealCycler (n=5), Seegene - Seegene Real Time PCR (n=11), TIB MOLBIOL - TIB MOLBIOL LightMix (n=13), fast-track DIAGNOSTICS - FTD Real Time PCR (n=6)