Individual Report	**QCMD 2022 Legionella pneumophila DNA EQA Programme**					
Catalogue Code: QAB044122	**Ref Code:** LPDNA22	**Challenge:** S	**Analysis Type:** Qualitative	**Dataset:** 531843	**Report UID:** 2677/531843/4397	**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)*
LPDNA22S-01	L. pneumophila sg2-14	Transport medium	-	Frequently Detected	CORE	100.0	136
LPDNA22S-02	L. pneumophila sg6	Transport medium	DS1_1	Frequently Detected	CORE	100.0	136
LPDNA22S-03	L. pneumophila sg1 (ST47)	Transport medium	DS2_1	Frequently Detected	CORE	99.3	136
LPDNA22S-04	L. pneumophila sg1 (ST62)	Transport medium	DS3_1	Frequently Detected	CORE	100.0	136
LPDNA22S-05	L. longbeachae	Transport medium	-	Negative	EDUCATIONAL	89.7	136
LPDNA22S-06	Legionella Negative	Transport medium	-	Negative	CORE	100.0	136
LPDNA22S-07	L. pneumophila sg3	Transport medium	-	Frequently Detected	CORE	100.0	136
LPDNA22S-08	L. pneumophila sg6	Transport medium	DS1_2	Frequently Detected	CORE	98.5	136
LPDNA22S-09	L. pneumophila sg1 (ST47)	Transport medium	DS2_2	Detected	EDUCATIONAL	88.2	136
LPDNA22S-10	L. pneumophila sg1 (ST62)	Transport medium	DS3_2	Detected	EDUCATIONAL	89.0	136

[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.

QCMD, Technology Terrace, Todd Campus, West of Scotland Science Park, Glasgow, G20 0XA Tel: +44 (0) 141 945 6474, Fax: +44 (0) 141 945 5795 Web: www.qcmd.org   Page 1 of 17   Issue Date: 03 May 2022
Report authorised by the QCMD Executive (1)
A UKAS accredited proficiency testing provider No.4385

| Catalogue Code: QAB044122 | Ref Code: LPDNA22 | Challenge: S | Analysis Type: Qualitative | Dataset: 531843 | Report UID: 2677/531843/4397 | Laboratory CZ023 |

Your Summary Results

EQA Assessment Group [1]	Commercial
Core Panel Detection (Qualitative) Score [2]	0

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
LPDNA22S-01	100.0	Positive	0		N/A	24.98
LPDNA22S-02	100.0	Positive	0		N/A	26.89
LPDNA22S-03	99.3	Positive	0		N/A	26.21
LPDNA22S-04	100.0	Positive	0		N/A	25.77
LPDNA22S-06	100.0	Negative	0		N/A	-
LPDNA22S-07	100.0	Positive	0		N/A	20.67
LPDNA22S-08	98.5	Positive	0		N/A	30.33

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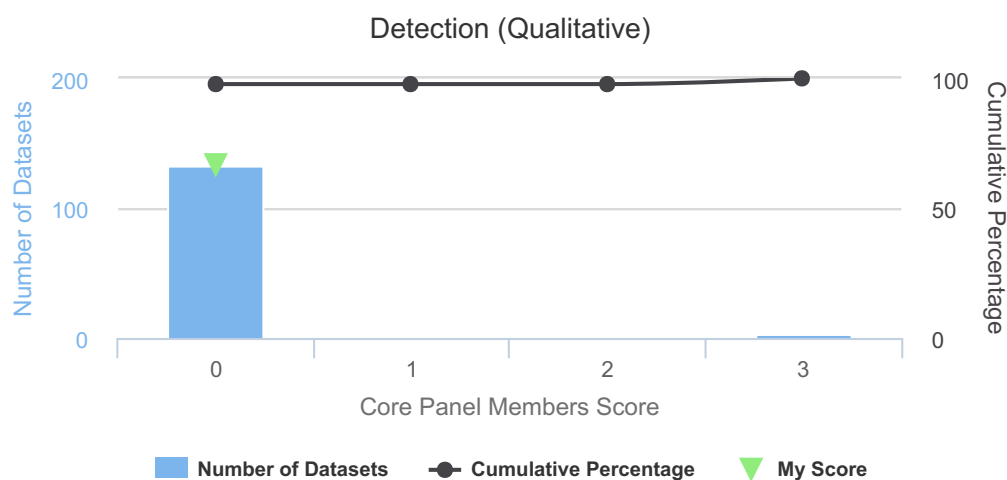
[5] **Your Result:** The qualitative result you reported for each sample within this EQA challenge / distribution.

[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)

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	Legionella pneumophila PCR Kit (v4)
Description	
Targets	**B** Legionella pneumophila

Assays	*Extraction* - GeneProof - GeneProof
	• Commercial
	  ○ Kit Manufacturer: *GeneProof*
	  ○ Kit Type: *PathogenFree DNA Isolation Kit*
	
	Amplification - GeneProof - croBEE Real-Time PCR System
	• Commercial
	  ○ Kit Manufacturer: *GeneProof*
	  ○ Kit Type: *GeneProof Legionella pneumophila PCR Kit*
	  ○ Kit Version: *Not Applicable*

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Individual Report	QCMD 2022 Legionella pneumophila DNA EQA Programme					
Catalogue Code: QAB044122	**Ref Code:** LPDNA22	**Challenge:** S	**Analysis Type:** Qualitative	**Dataset:** 531843	**Report UID:** 2677/531843/4397	**Laboratory** CZ023

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**
LPDNA22S-05	89.7	Negative	0		N/A	-
LPDNA22S-09	88.2	Positive	0		N/A	34.08
LPDNA22S-10	89.0	Positive	0		N/A	32.78

[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	128
Number of Countries	27
Number of Respondents	121
Number of Datasets Submitted	136
Qualitative Results Returned	136 (100.0%)

EQA Programme Aims

To assess proficiency of laboratories in the detection of *Legionella pneumophila*.

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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Individual Report	QCMD 2022 Legionella pneumophila DNA EQA Programme				**QCMD** Quality Control for Molecular Diagnostics	
Catalogue Code: QAB044122	**Ref Code:** LPDNA22	**Challenge:** S	**Analysis Type:** Qualitative	**Dataset:** 531843	**Report UID:** 2677/531843/4397	**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.
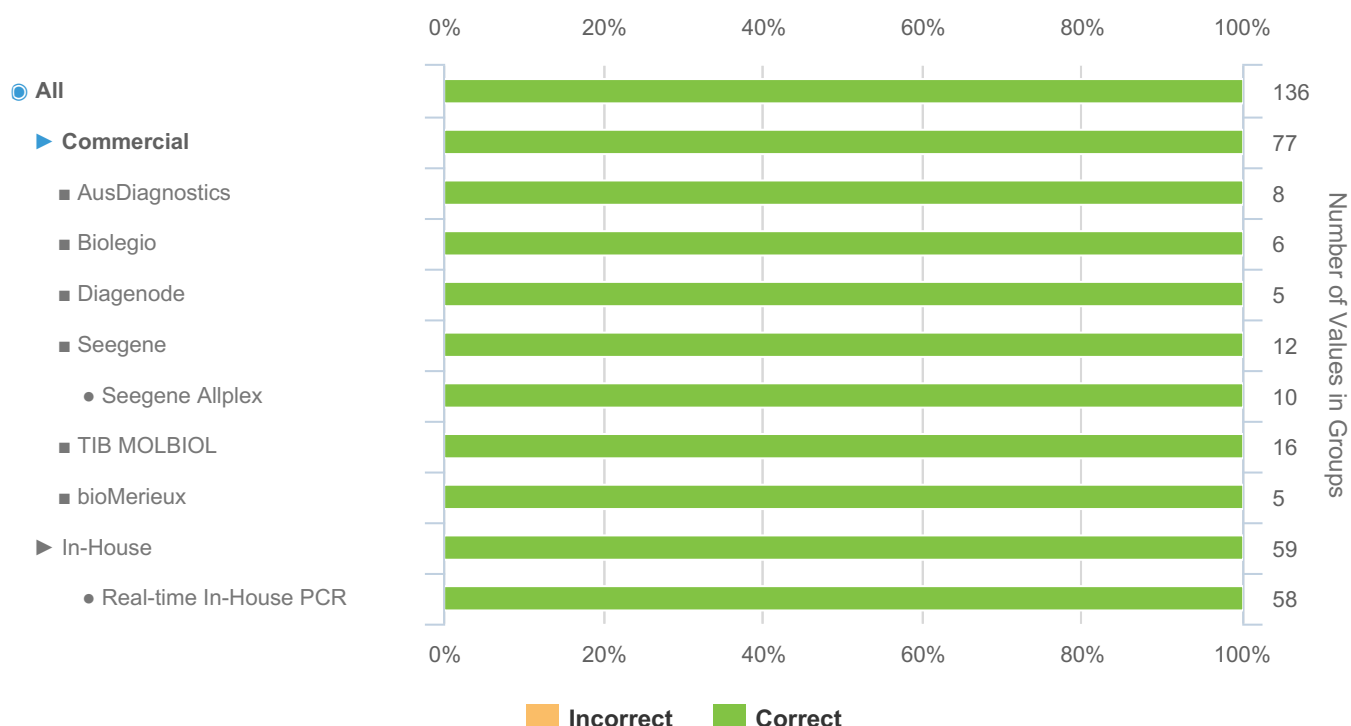
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or 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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Catalogue Code: QAB044122	Ref Code: LPDNA22	Challenge: S	Analysis Type: Qualitative	Dataset: 531843	Report UID: 2677/531843/4397	Laboratory CZ023

LPDNA22S-01 - Qualitative Results Breakdown

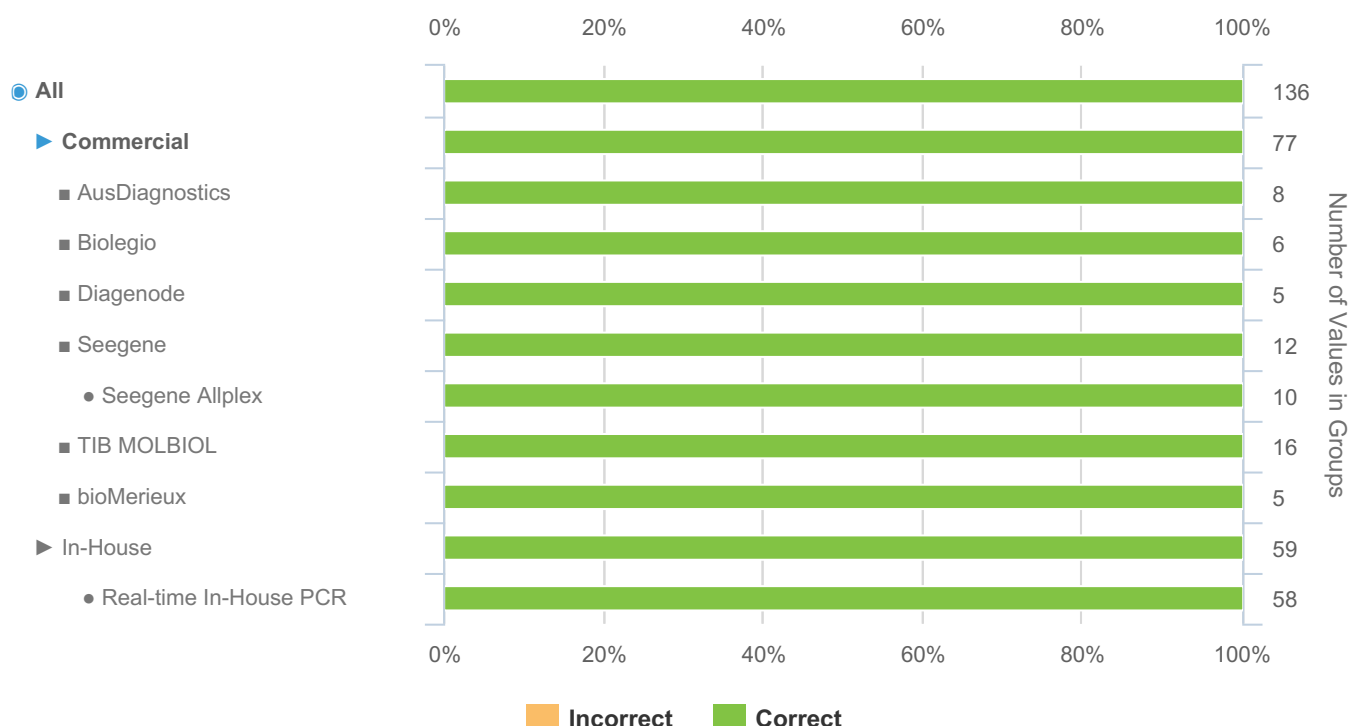| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-01	L. pneumophila sg2-14	Transport medium	-	Frequently Detected	CORE	100.0	136

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

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Individual Report	QCMD 2022 Legionella pneumophila DNA EQA Programme		

Catalogue Code: QAB044122	Ref Code: LPDNA22	Challenge: S	Analysis Type: Qualitative	Dataset: 531843	Report UID: 2677/531843/4397	Laboratory CZ023

LPDNA22S-02 - Qualitative Results Breakdown

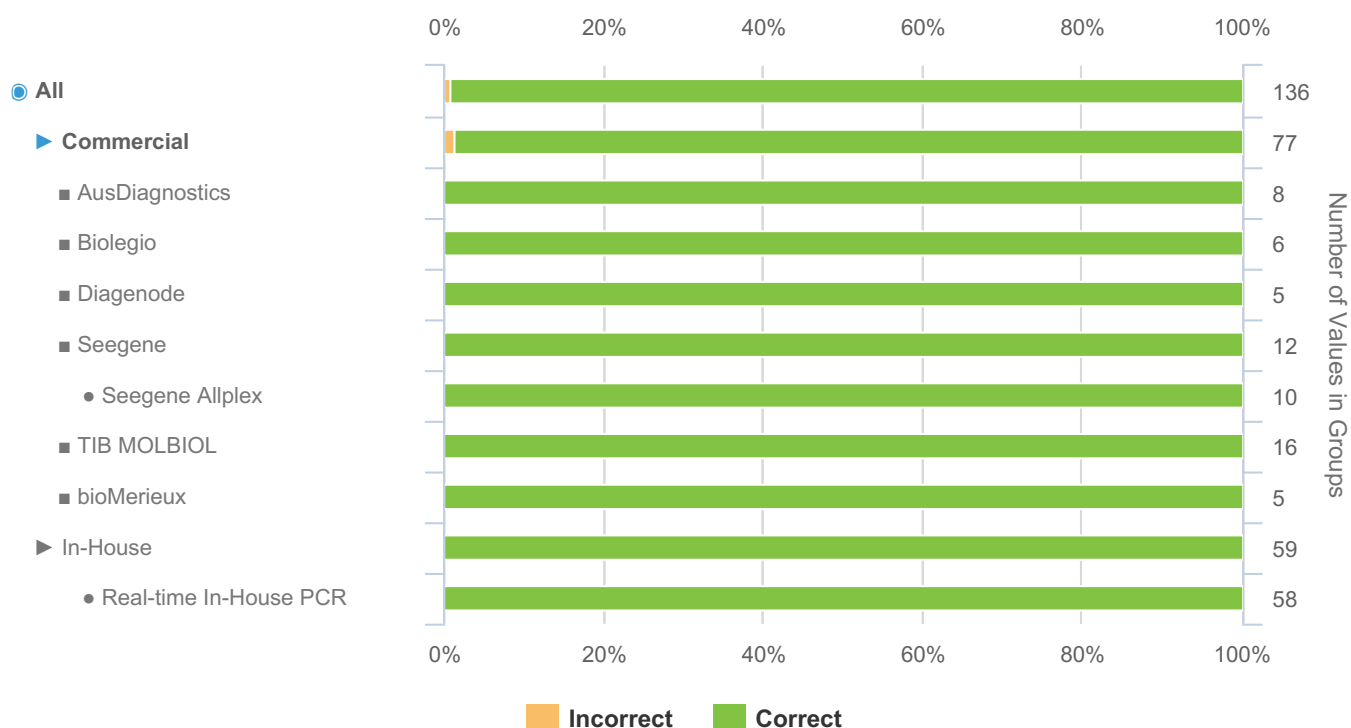| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-02	L. pneumophila sg6	Transport medium	DS1_1	Frequently Detected	CORE	100.0	136

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

Individual Report	QCMD 2022 Legionella pneumophila DNA EQA Programme		

Catalogue Code: QAB044122	Ref Code: LPDNA22	Challenge: S	Analysis Type: Qualitative	Dataset: 531843	Report UID: 2677/531843/4397	Laboratory CZ023

LPDNA22S-03 - Qualitative Results Breakdown

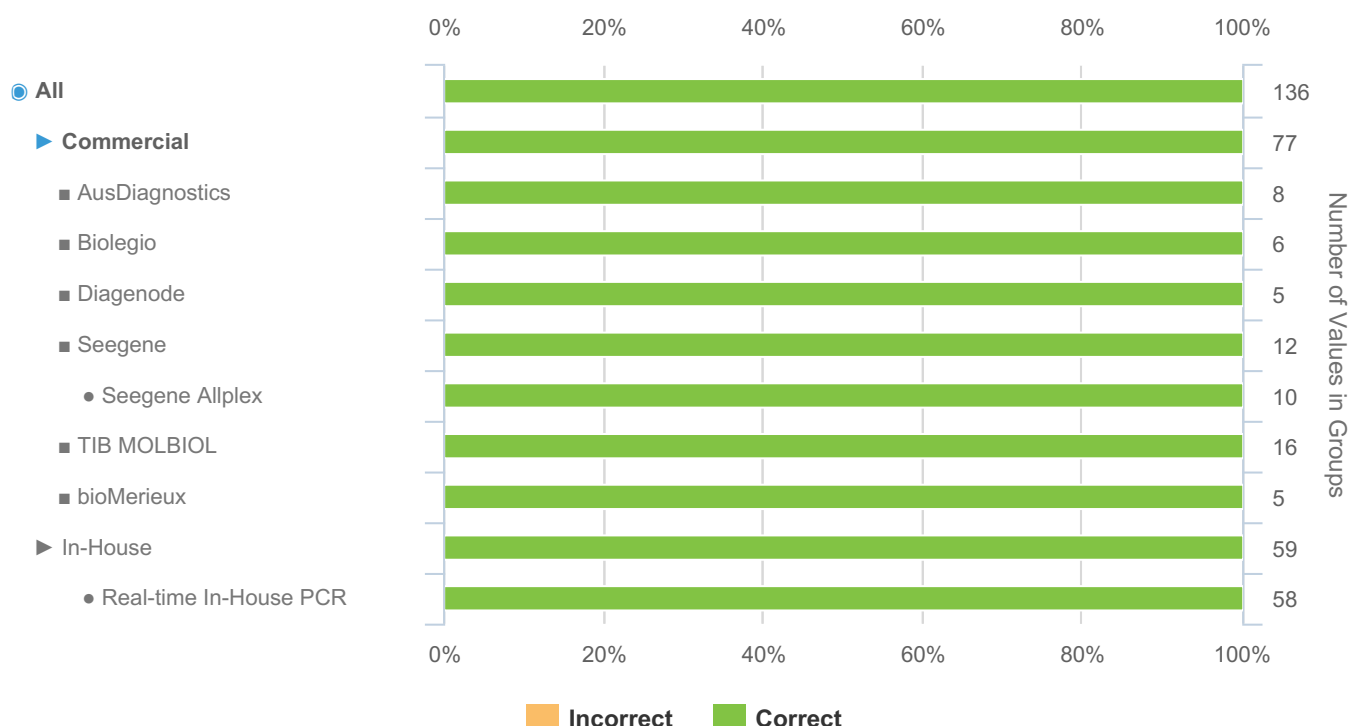| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-03	L. pneumophila sg1 (ST47)	Transport medium	DS2_1	Frequently Detected	CORE	99.3	136

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

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| Catalogue Code: QAB044122 | Ref Code: LPDNA22 | Challenge: S | Analysis Type: Qualitative | Dataset: 531843 | Report UID: 2677/531843/4397 | Laboratory CZ023 |

LPDNA22S-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-04	L. pneumophila sg1 (ST62)	Transport medium	DS3_1	Frequently Detected	CORE	100.0	136

Chart showing Percentage Correct by group:
- All — 136 (Correct)
- Commercial — 77 (Correct)
- AusDiagnostics — 8 (Correct)
- Biolegio — 6 (Correct)
- Diagenode — 5 (Correct)
- Seegene — 12 (Correct)
- Seegene Allplex — 10 (Correct)
- TIB MOLBIOL — 16 (Correct)
- bioMerieux — 5 (Correct)
- In-House — 59 (Correct)
- Real-time In-House PCR — 58 (Correct)
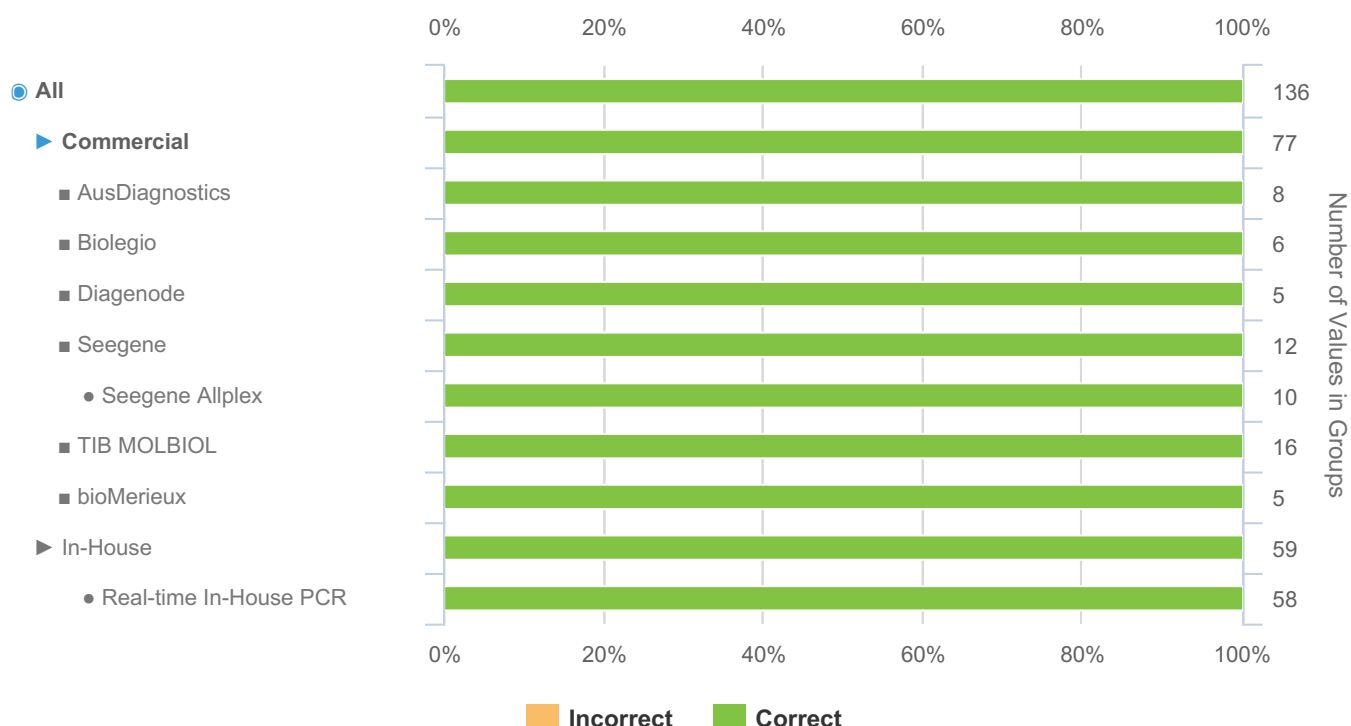
Legend: Incorrect | Correct

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

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Catalogue Code: QAB044122	Ref Code: LPDNA22	Challenge: S	Analysis Type: Qualitative	Dataset: 531843	Report UID: 2677/531843/4397	Laboratory CZ023

LPDNA22S-06 - Qualitative Results Breakdown

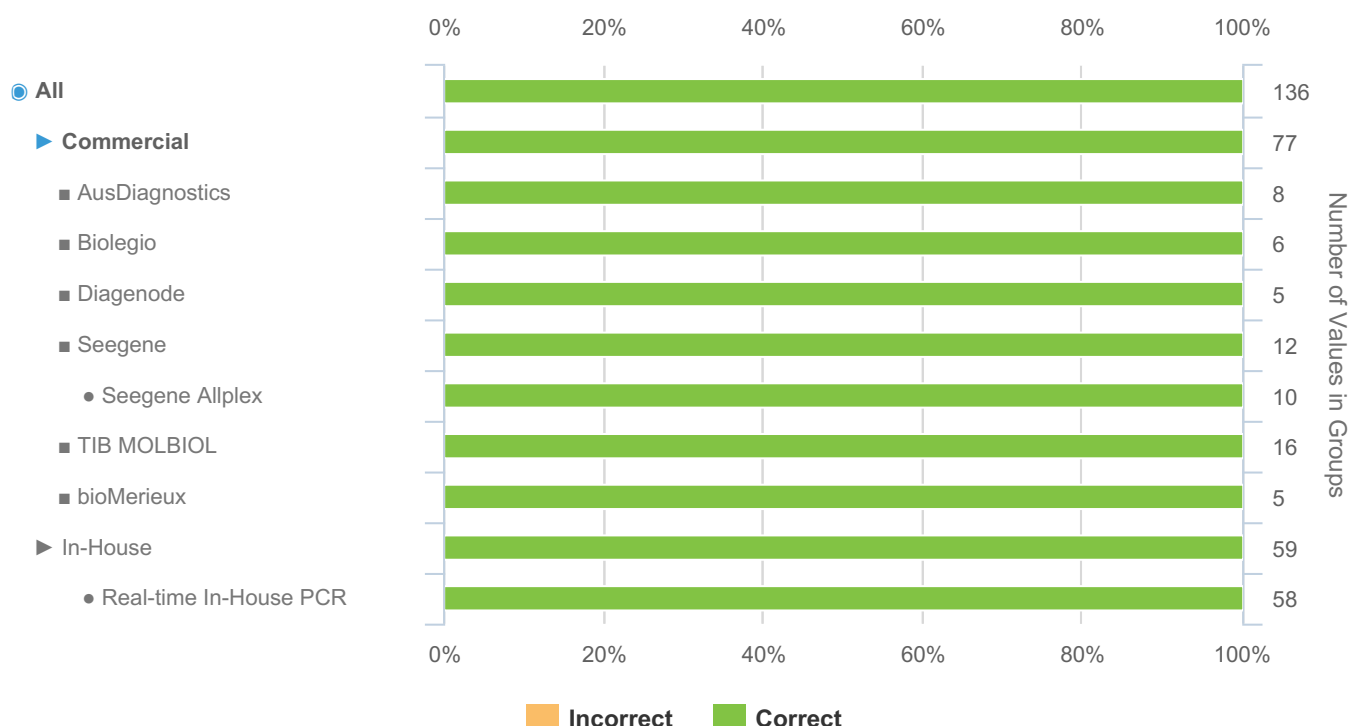| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-06	Legionella Negative	Transport medium	-	Negative	CORE	100.0	136

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

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LPDNA22S-07 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-07	L. pneumophila sg3	Transport medium	-	Frequently Detected	CORE	100.0	136

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

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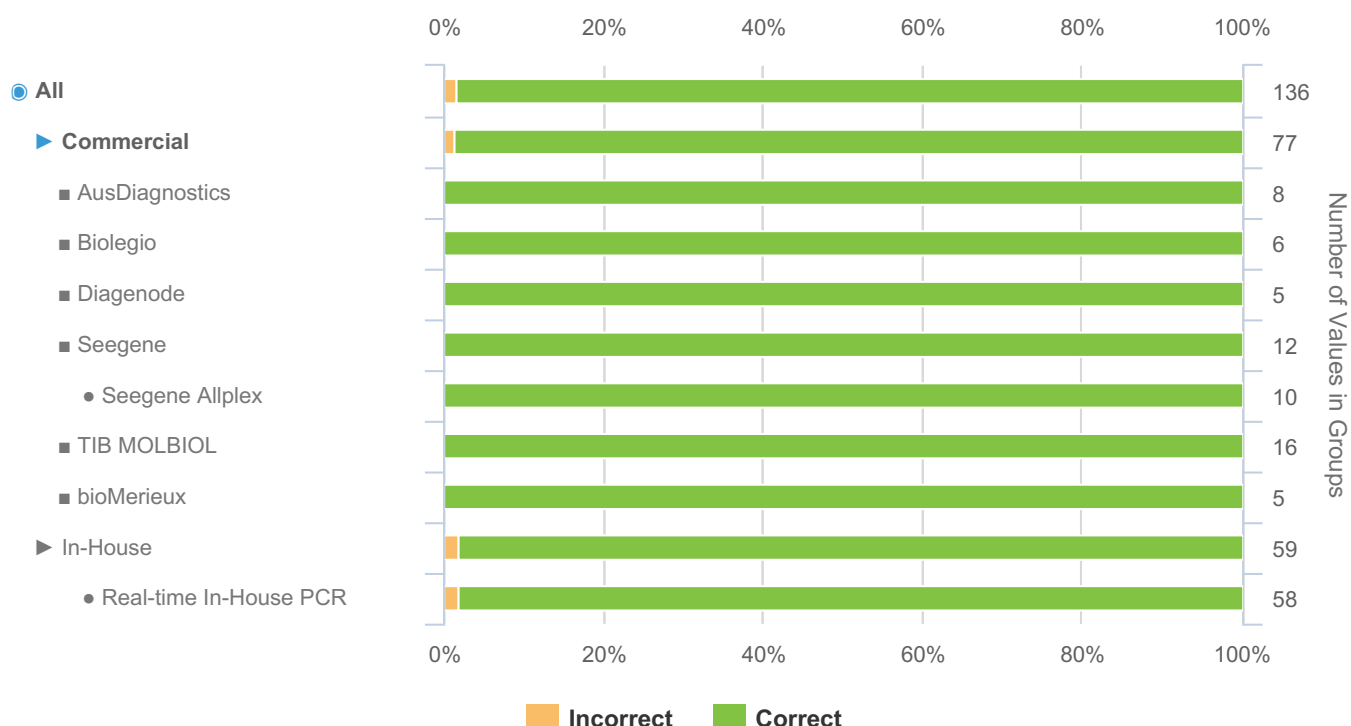| Catalogue Code: QAB044122	Ref Code: LPDNA22	Challenge: S	Analysis Type: Qualitative	Dataset: 531843	Report UID: 2677/531843/4397	Laboratory CZ023

LPDNA22S-08 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-08	L. pneumophila sg6	Transport medium	DS1_2	Frequently Detected	CORE	98.5	136

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

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Issue Date: 03 May 2022
Report authorised by the QCMD Executive (1)
A UKAS accredited proficiency testing provider No.4385

Individual Report	QCMD 2022 Legionella pneumophila DNA EQA Programme	QCMD Quality Control for Molecular Diagnostics

Catalogue Code: QAB044122	Ref Code: LPDNA22	Challenge: S	Analysis Type: Qualitative	Dataset: 531843	Report UID: 2677/531843/4397	Laboratory CZ023

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.
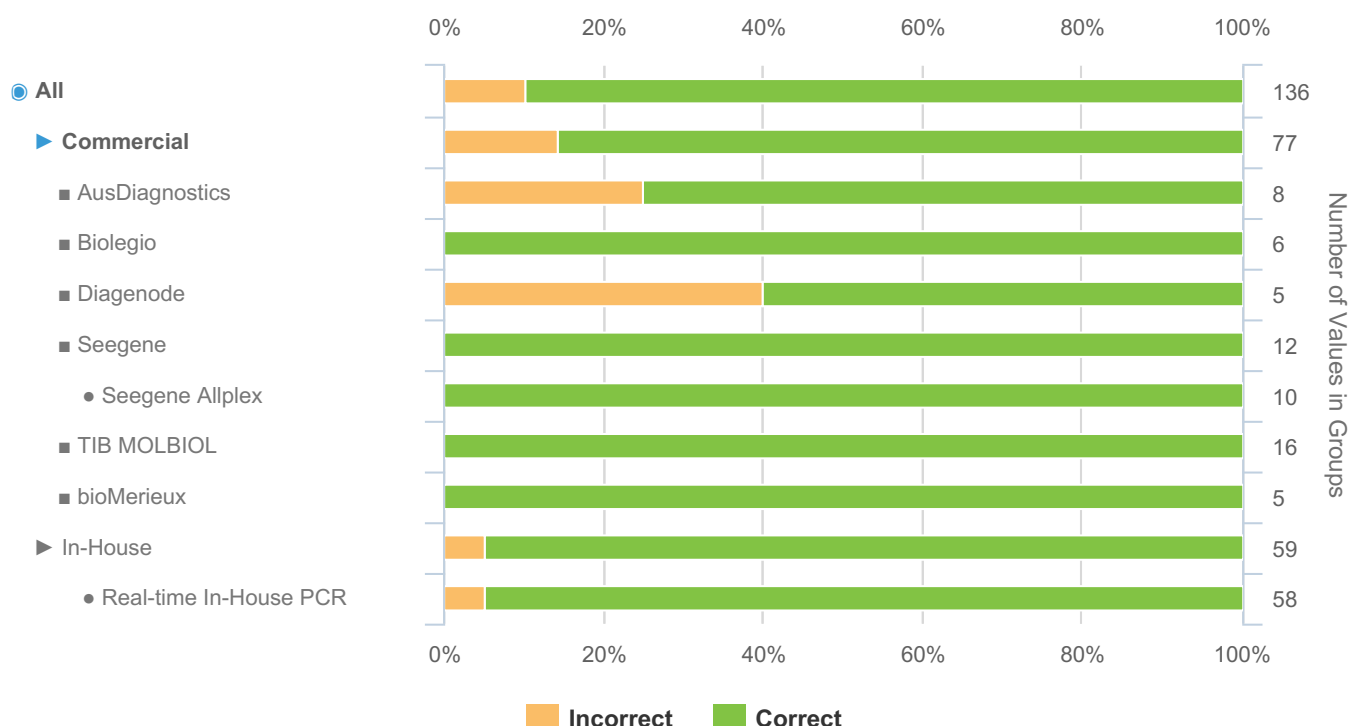
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or 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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Individual Report	QCMD 2022 Legionella pneumophila DNA EQA Programme		

Catalogue Code: QAB044122	Ref Code: LPDNA22	Challenge: S	Analysis Type: Qualitative	Dataset: 531843	Report UID: 2677/531843/4397	Laboratory CZ023

LPDNA22S-05 - Qualitative Results Breakdown

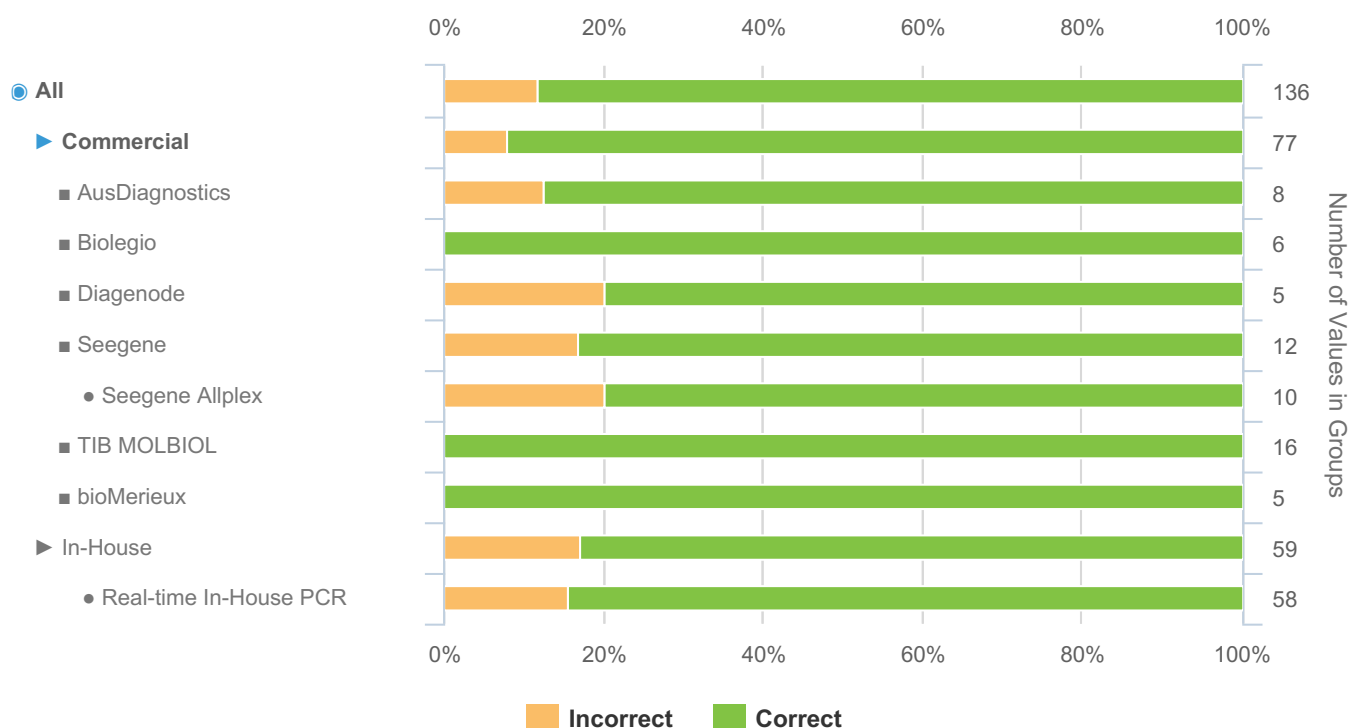| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-05	L. longbeachae	Transport medium	-	Negative	EDUCATIONAL	89.7	136

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

Individual Report	QCMD 2022 Legionella pneumophila DNA EQA Programme					
Catalogue Code: QAB044122	**Ref Code:** LPDNA22	**Challenge:** S	**Analysis Type:** Qualitative	**Dataset:** 531843	**Report UID:** 2677/531843/4397	**Laboratory** CZ023

LPDNA22S-09 - Qualitative Results Breakdown

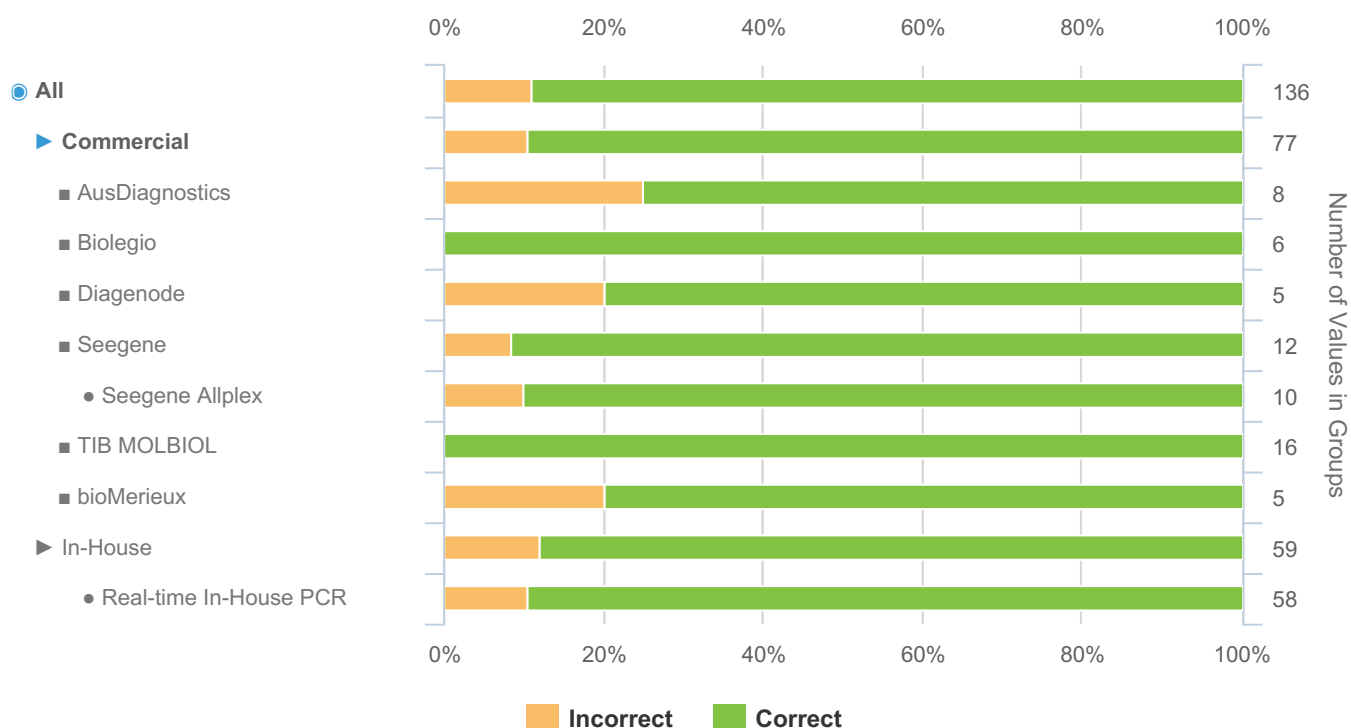| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-09	L. pneumophila sg1 (ST47)	Transport medium	DS2_2	Detected	EDUCATIONAL	88.2	136

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

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LPDNA22S-10 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
LPDNA22S-10	L. pneumophila sg1 (ST62)	Transport medium	DS3_2	Detected	EDUCATIONAL	89.0	136

Groups below n=5: Anatolia Geneworks (n=1), Anatolia Geneworks - Anatolia Geneworks Bosphore (n=1), BioGX (n=4), BioGX - BioGX Sample-Ready (n=4), Certest (n=2), Certest - Certest Real Time PCR (n=2), ELITech Group (n=4), ELITech Group - Elitech Alert Real Time Q-PCR kit (n=1), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), Invitrogen (n=1), Invitrogen - Invitrogen PCR Reagents (n=1), Luminex (n=4), Luminex - Luminex xTAG (n=4), PrimerDesign (n=1), PrimerDesign - PrimerDesign Genesig (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), Seegene - Seegene Anyplex II (n=1), Seegene - Seegene Seeplex (n=1), Vitassay (n=2), Vitassay - Vitassay Real-Time PCR (n=2), bioMerieux - bioMerieux R-gene Kit (n=1), bioMerieux - bioMerieux R-gene Quant Kit (n=4), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: AusDiagnostics - AusDiagnostics Tandem-Plex (n=8), Biolegio - Biolegio ReadyMax (n=6), Diagenode - Diagenode Real Time kit (n=5), TIB MOLBIOL - TIB-MolBiol LightMix (n=16)

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Catalogue Code: QAB044122	**Ref Code:** LPDNA22	**Challenge:** S	**Analysis Type:** Qualitative	**Dataset:** 531843	**Report UID:** 2677/531843/4397	**Laboratory** CZ023

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