Individual Report	QCMD 2021 Trichomonas vaginalis EQA Programme	**QCMD** Quality Control for Molecular Diagnostics

Catalogue Code: QAP184202	Ref Code: TV21	Challenge: S	Analysis Type: Qualitative	Dataset: 466563	Report UID: 2677/466563/3611	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)
TV21S-01	Trichomonas vaginalis	Transport Medium	D1, DS1_1	Frequently Detected	CORE	100.0	92
TV21S-02	Trichomonas vaginalis	Transport Medium	DS1_2	Frequently Detected	CORE	97.8	92
TV21S-03	Trichomonas vaginalis	Transport Medium	D1, DS1_1	Frequently Detected	CORE	100.0	92
TV21S-04	T. vaginalis + C. trachomatis + M. hominis	Transport Medium		Frequently Detected	CORE	95.7	92
TV21S-05	Negative	Transport Medium		Negative	CORE	97.8	92
TV21S-06	T. vaginalis + G. vaginalis	Transport Medium		Detected	CORE	94.6	92
TV21S-07	Trichomonas vaginalis	Transport Medium	DS1_3	Detected	EDUCATIONAL	81.5	92
TV21S-08	Trichomonas vaginalis	Transport Medium	D1, DS1_1	Frequently Detected	CORE	98.9	92

[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]	Commercial
Core Panel Detection (Qualitative) Score [2]	0

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Individual Report	QCMD 2021 Trichomonas vaginalis EQA Programme					

Catalogue Code: QAP184202	Ref Code: TV21	Challenge: S	Analysis Type: Qualitative	Dataset: 466563	Report UID: 2677/466563/3611	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
TV21S-01	100.0	Positive	0		N/A	29.26
TV21S-02	97.8	Positive	0		N/A	32.53
TV21S-03	100.0	Positive	0		N/A	28.64
TV21S-04	95.7	Positive	0		N/A	32.18
TV21S-05	97.8	Negative	0		N/A	-
TV21S-06	94.6	Positive	0		N/A	32.6
TV21S-08	98.9	Positive	0		N/A	28.92

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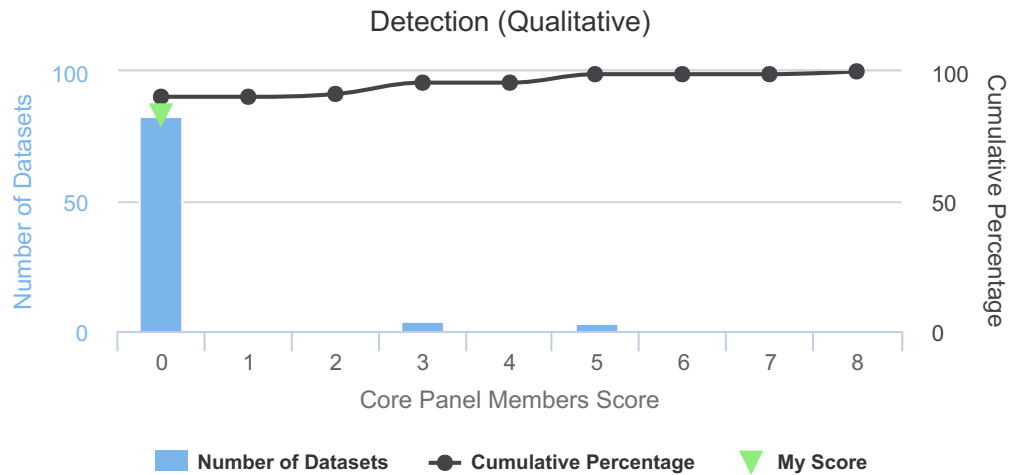
[5] **Your Result:** The qualitative result you reported for each sample within this EQA challenge / distribution.

[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.

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Catalogue Code: QAP184202	Ref Code: TV21	Challenge: S	Analysis Type: Qualitative	Dataset: 466563	Report UID: 2677/466563/3611	Laboratory CZ023

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 Trichomonas vaginalis PCR Kit-croBEE (v2)
Description	
Targets	**B** Trichomonas vaginalis
Assays	*Extraction* - GeneProof - croBEE NA16 Nucleic Acid Extraction System • Commercial ○ Kit Manufacturer: *GeneProof* ○ Kit Type: *croBEE 201A Nucleic Acid Extraction Kit* *Amplification* - GeneProof - croBEE Real-Time PCR System • Commercial ○ Kit Manufacturer: *GeneProof* ○ Kit Type: *Trichomonas vaginalis PCR Kit* ○ Kit Version: *GP*

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Individual Report	QCMD 2021 Trichomonas vaginalis EQA Programme	**QCMD** Quality Control for Molecular Diagnostics

Catalogue Code: QAP184202	Ref Code: TV21	Challenge: S	Analysis Type: Qualitative	Dataset: 466563	Report UID: 2677/466563/3611	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
TV21S-07	81.5	Positive	0		N/A	35.54

[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	99
Number of Countries	23
Number of Respondents	81
Number of Datasets Submitted	92
Qualitative Results Returned	92 (100.0%)

EQA Programme Aims

To assess the performance of laboratories in the detection of *Trichomonas vaginalis*.

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.

Individual Report	QCMD 2021 Trichomonas vaginalis EQA Programme	QCMD Quality Control for Molecular Diagnostics

Catalogue Code: QAP184202	Ref Code: TV21	Challenge: S	Analysis Type: Qualitative	Dataset: 466563	Report UID: 2677/466563/3611	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.
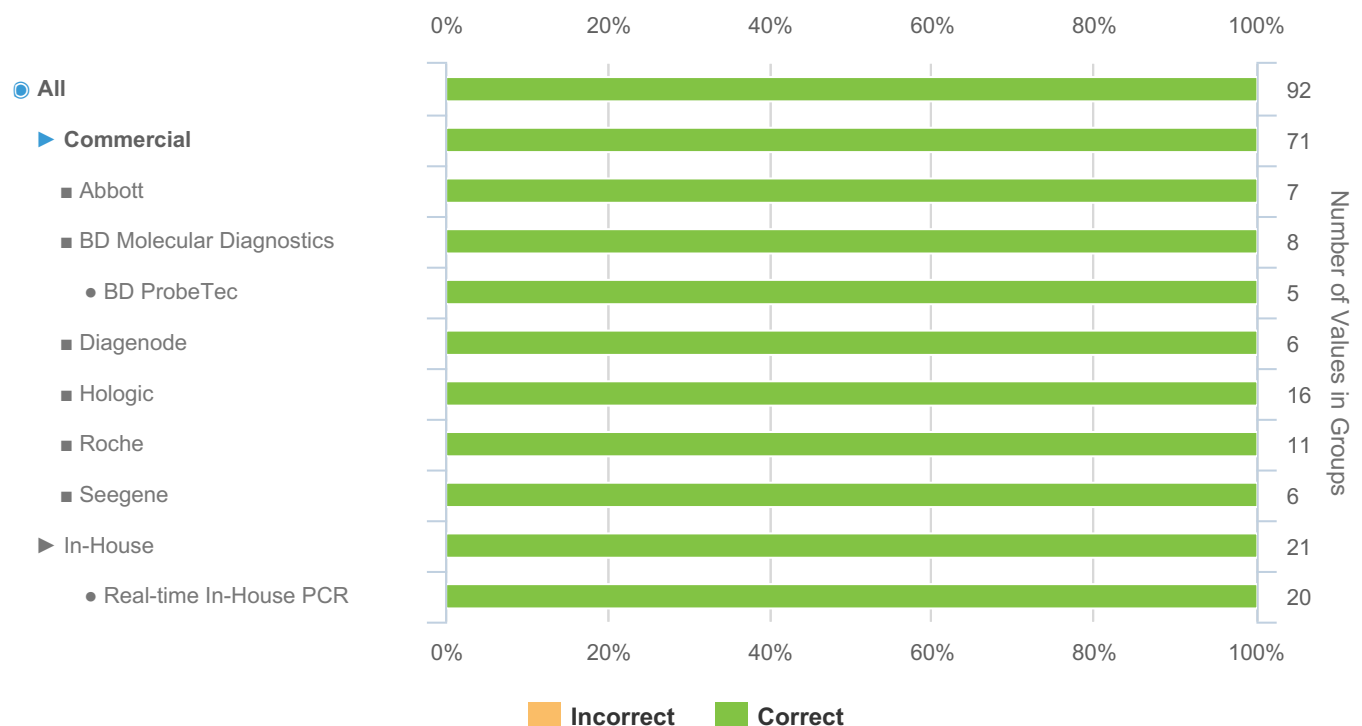
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or 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: QAP184202	Ref Code: TV21	Challenge: S	Analysis Type: Qualitative	Dataset: 466563	Report UID: 2677/466563/3611	Laboratory CZ023

TV21S-01 - Qualitative Results Breakdown

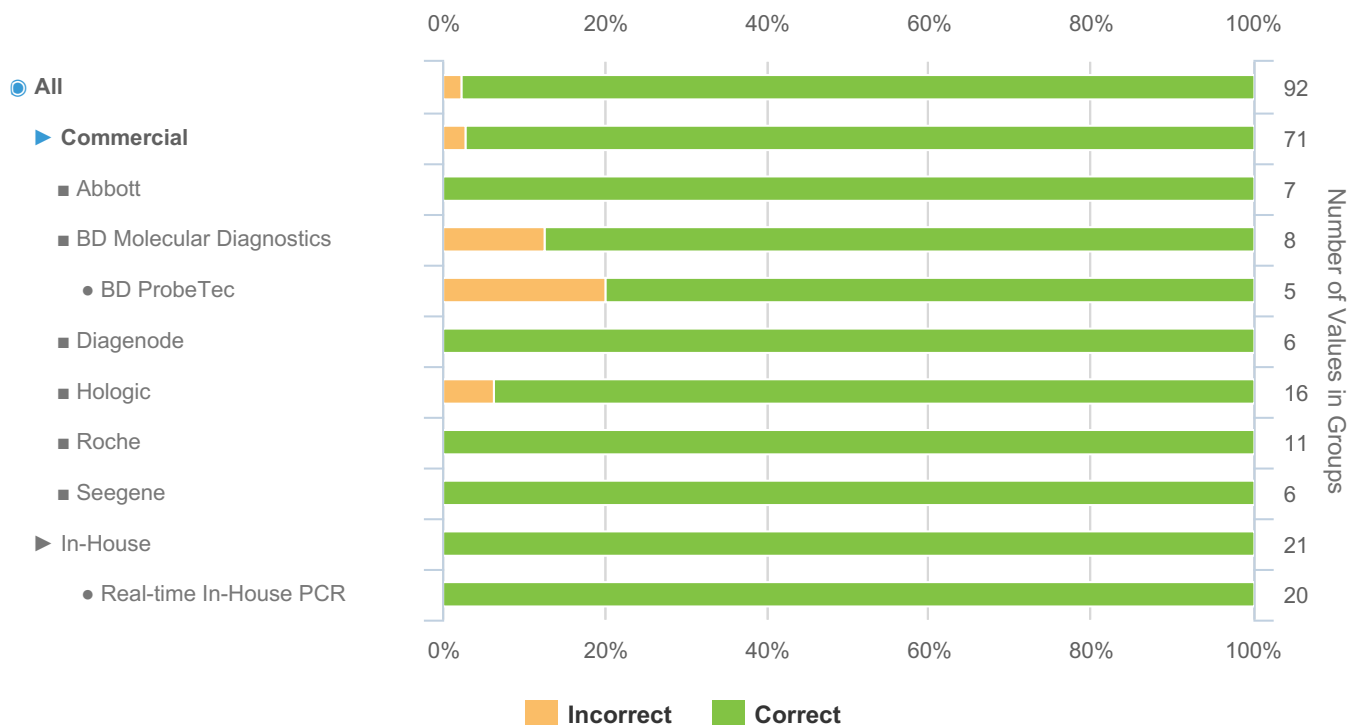| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
TV21S-01	Trichomonas vaginalis	Transport Medium	D1, DS1_1	Frequently Detected	CORE	100.0	92

Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), AmpliSens (n=1), AmpliSens - AmpliSens Real Time PCR (n=1), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics High-Plex (n=1), BD Molecular Diagnostics - BD MAX (n=3), Cepheid (n=3), Cepheid - Cepheid Xpert kit (n=3), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Seegene - Seegene Allplex (n=4), Seegene - Seegene Anyplex II (n=2), TIB MOLBIOL (n=1), TIB MOLBIOL - TIB MOLBIOL LightMix (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Alinity m (n=7), Diagenode - Diagenode Real Time kit (n=6), Hologic - Hologic Aptima (n=16), Roche - Roche Cobas 6800/8800 (n=11)

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TV21S-02 - Qualitative Results Breakdown

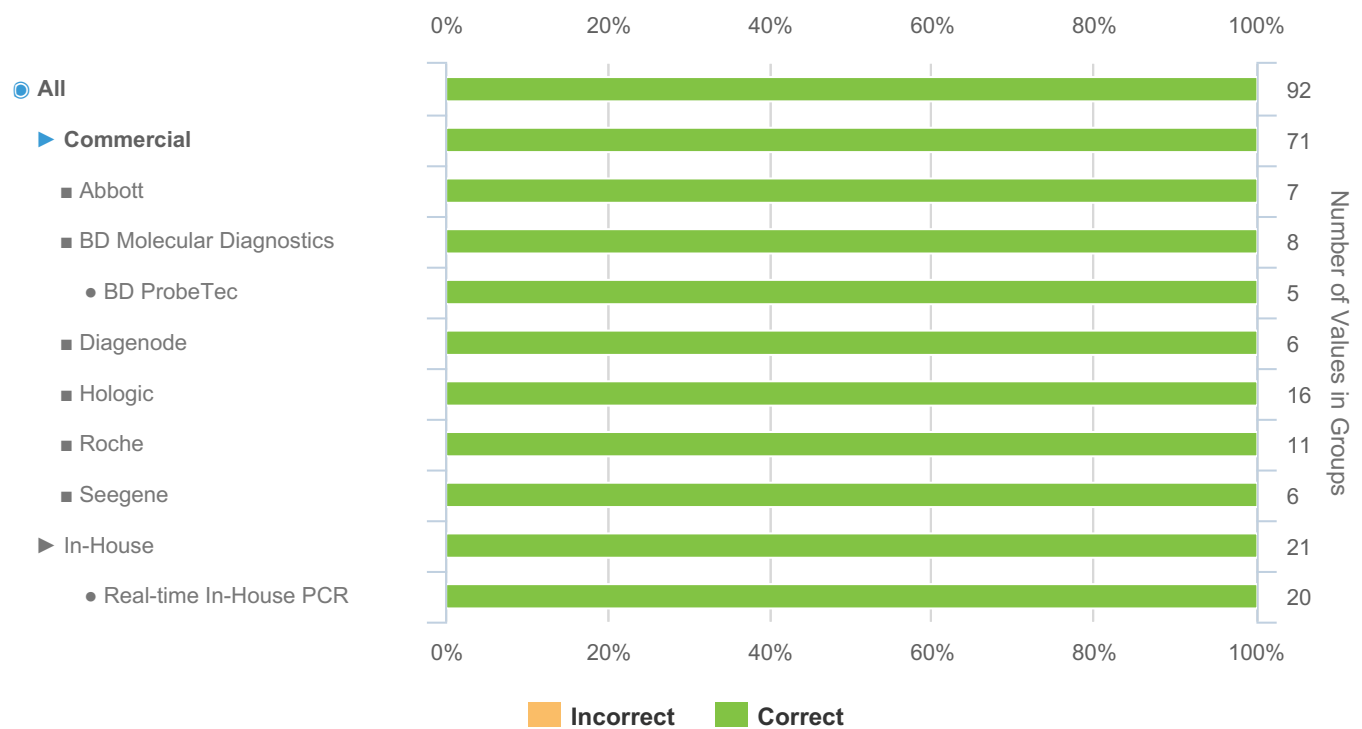| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
TV21S-02	Trichomonas vaginalis	Transport Medium	DS1_2	Frequently Detected	CORE	97.8	92

Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), AmpliSens (n=1), AmpliSens - AmpliSens Real Time PCR (n=1), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics High-Plex (n=1), BD Molecular Diagnostics - BD MAX (n=3), Cepheid (n=3), Cepheid - Cepheid Xpert kit (n=3), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Seegene - Seegene Allplex (n=4), Seegene - Seegene Anyplex II (n=2), TIB MOLBIOL (n=1), TIB MOLBIOL - TIB MOLBIOL LightMix (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Alinity m (n=7), Diagenode - Diagenode Real Time kit (n=6), Hologic - Hologic Aptima (n=16), Roche - Roche Cobas 6800/8800 (n=11)

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TV21S-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
TV21S-03	Trichomonas vaginalis	Transport Medium	D1, DS1_1	Frequently Detected	CORE	100.0	92

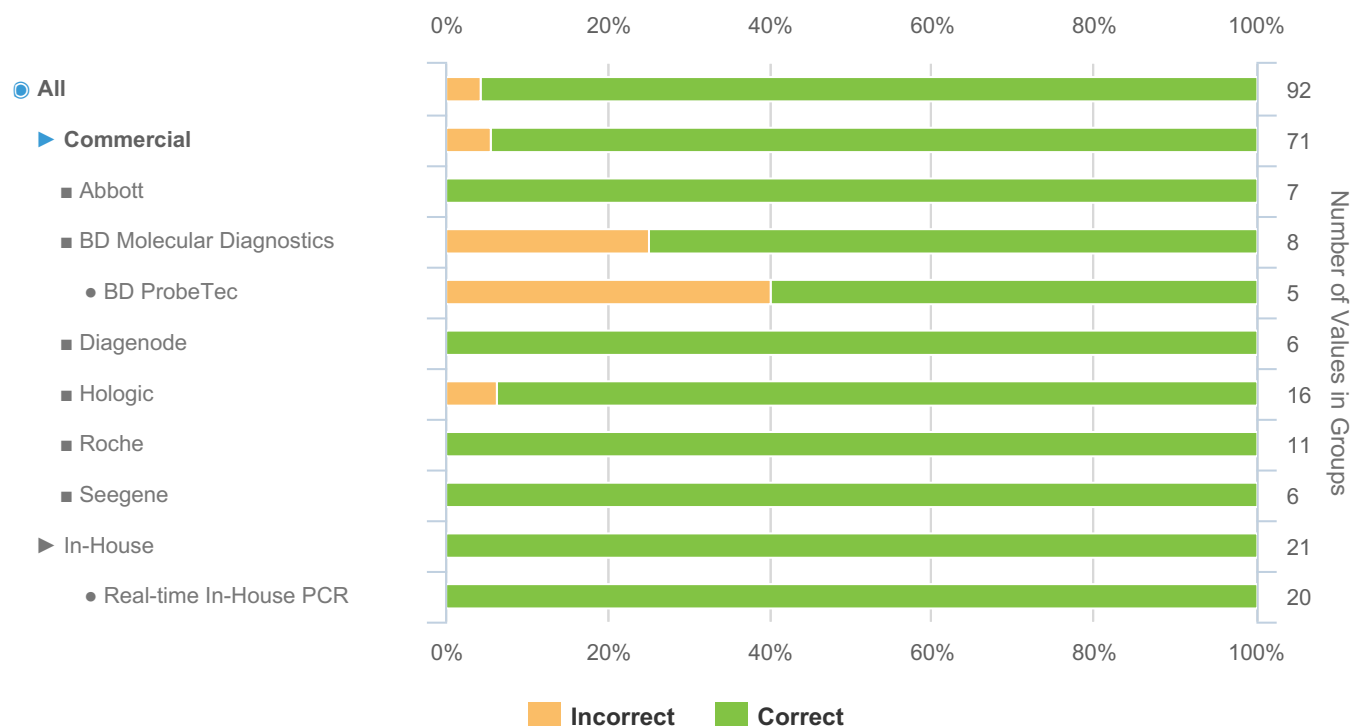| Group	Number of Values in Groups
● All	92
► Commercial	71
■ Abbott	7
■ BD Molecular Diagnostics	8
● BD ProbeTec	5
■ Diagenode	6
■ Hologic	16
■ Roche	11
■ Seegene	6
► In-House	21
● Real-time In-House PCR	20

Incorrect ■ Correct ■

Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), AmpliSens (n=1), AmpliSens - AmpliSens Real Time PCR (n=1), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics High-Plex (n=1), BD Molecular Diagnostics - BD MAX (n=3), Cepheid (n=3), Cepheid - Cepheid Xpert kit (n=3), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Seegene - Seegene Allplex (n=4), Seegene - Seegene Anyplex II (n=2), TIB MOLBIOL (n=1), TIB MOLBIOL - TIB MOLBIOL LightMix (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Alinity m (n=7), Diagenode - Diagenode Real Time kit (n=6), Hologic - Hologic Aptima (n=16), Roche - Roche Cobas 6800/8800 (n=11)

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TV21S-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
TV21S-04	T. vaginalis + C. trachomatis + M. hominis	Transport Medium		Frequently Detected	CORE	95.7	92

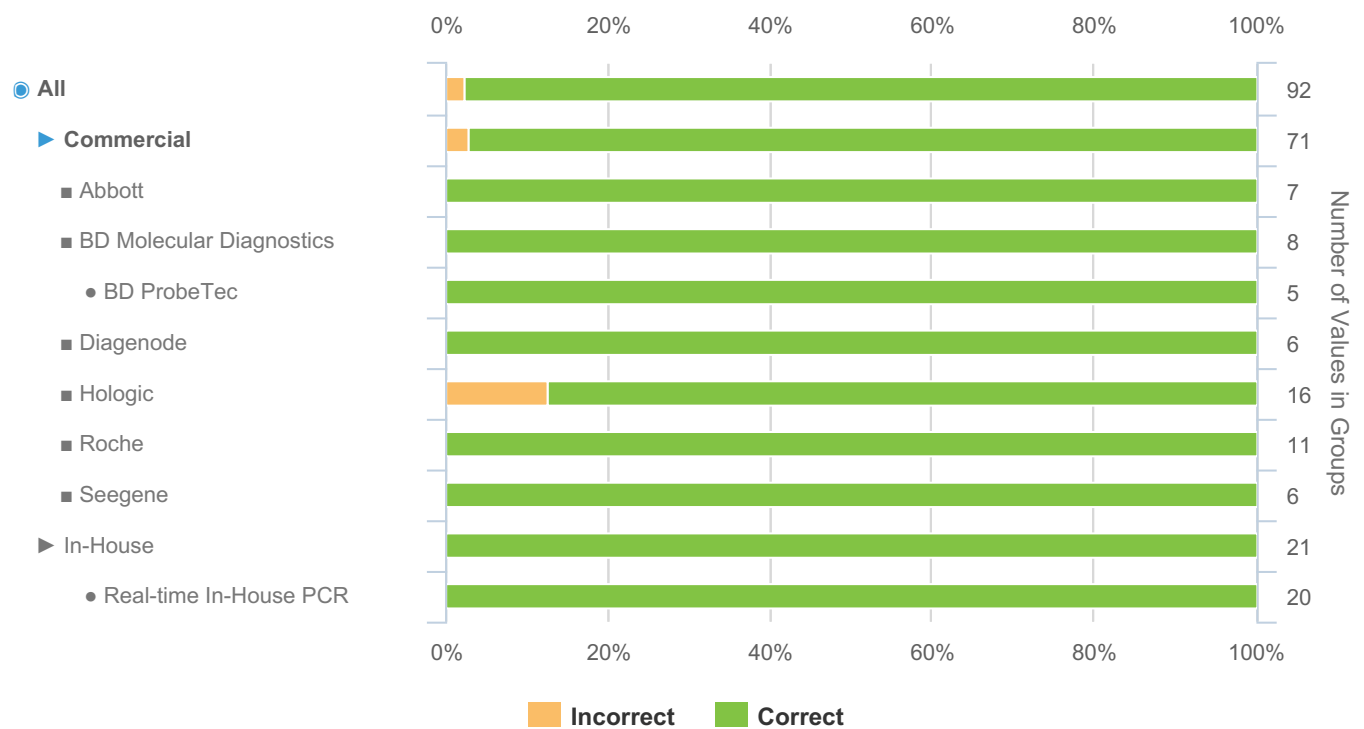| Group	Number of Values in Groups
● All	92
► Commercial	71
■ Abbott	7
■ BD Molecular Diagnostics	8
● BD ProbeTec	5
■ Diagenode	6
■ Hologic	16
■ Roche	11
■ Seegene	6
► In-House	21
● Real-time In-House PCR	20

Legend: ■ Incorrect ■ Correct

Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), AmpliSens (n=1), AmpliSens - AmpliSens Real Time PCR (n=1), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics High-Plex (n=1), BD Molecular Diagnostics - BD MAX (n=3), Cepheid (n=3), Cepheid - Cepheid Xpert kit (n=3), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Seegene - Seegene Allplex (n=4), Seegene - Seegene Anyplex II (n=2), TIB MOLBIOL (n=1), TIB MOLBIOL - TIB MOLBIOL LightMix (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Alinity m (n=7), Diagenode - Diagenode Real Time kit (n=6), Hologic - Hologic Aptima (n=16), Roche - Roche Cobas 6800/8800 (n=11)

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TV21S-05 - Qualitative Results Breakdown

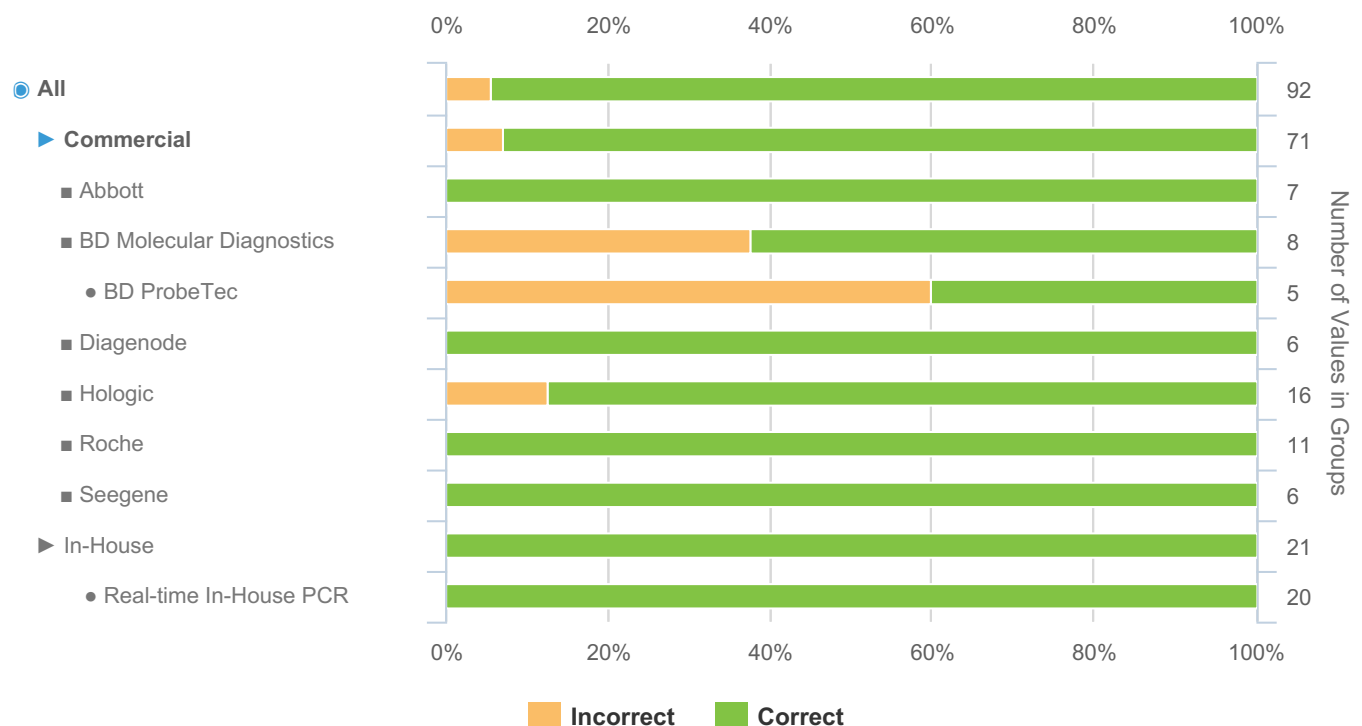| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
TV21S-05	Negative	Transport Medium		Negative	CORE	97.8	92

Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), AmpliSens (n=1), AmpliSens - AmpliSens Real Time PCR (n=1), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics High-Plex (n=1), BD Molecular Diagnostics - BD MAX (n=3), Cepheid (n=3), Cepheid - Cepheid Xpert kit (n=3), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Seegene - Seegene Allplex (n=4), Seegene - Seegene Anyplex II (n=2), TIB MOLBIOL (n=1), TIB MOLBIOL - TIB MOLBIOL LightMix (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Alinity m (n=7), Diagenode - Diagenode Real Time kit (n=6), Hologic - Hologic Aptima (n=16), Roche - Roche Cobas 6800/8800 (n=11)

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TV21 | Challenge:
S | Analysis Type:
Qualitative | Dataset:
466563 | Report UID:
2677/466563/3611 | Laboratory
CZ023 |

TV21S-06 - Qualitative Results Breakdown

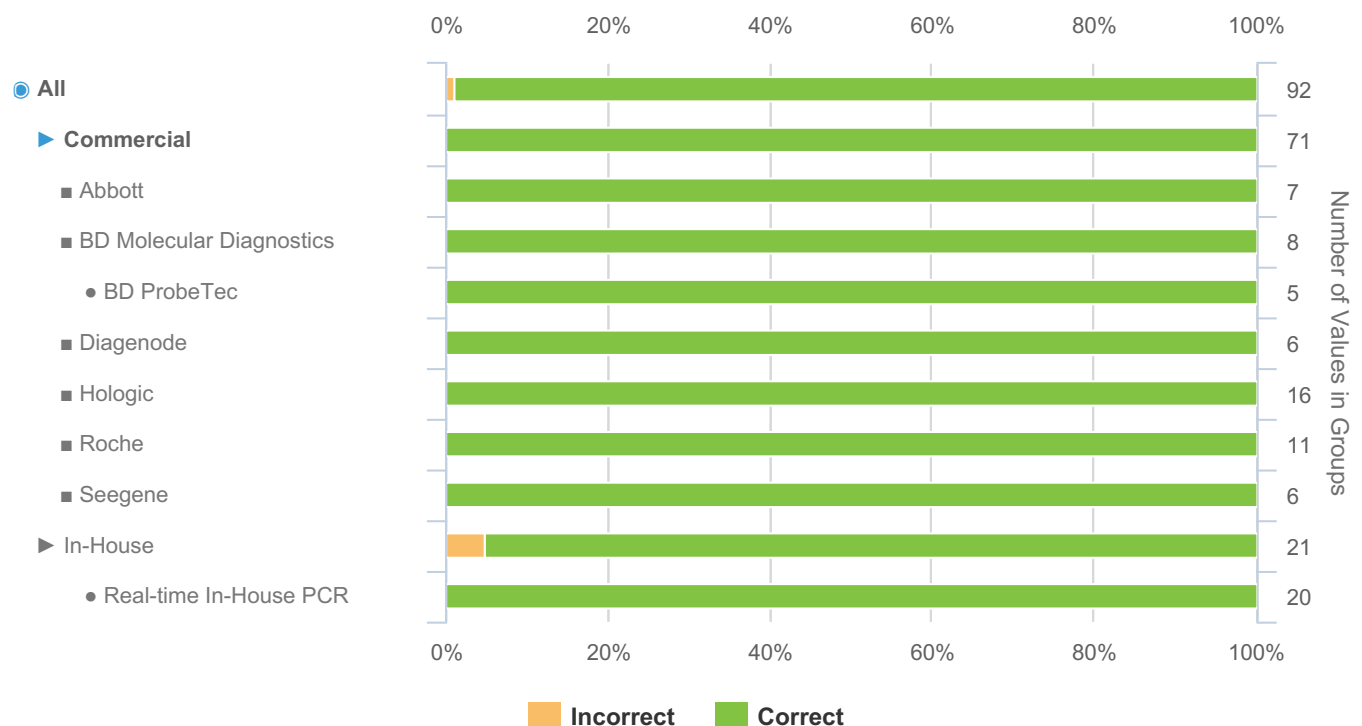| Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
TV21S-06	T. vaginalis + G. vaginalis	Transport Medium		Detected	CORE	94.6	92

Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), AmpliSens (n=1), AmpliSens - AmpliSens Real Time PCR (n=1), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics High-Plex (n=1), BD Molecular Diagnostics - BD MAX (n=3), Cepheid (n=3), Cepheid - Cepheid Xpert kit (n=3), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Seegene - Seegene Allplex (n=4), Seegene - Seegene Anyplex II (n=2), TIB MOLBIOL (n=1), TIB MOLBIOL - TIB MOLBIOL LightMix (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Alinity m (n=7), Diagenode - Diagenode Real Time kit (n=6), Hologic - Hologic Aptima (n=16), Roche - Roche Cobas 6800/8800 (n=11)

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TV21S-08 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
TV21S-08	Trichomonas vaginalis	Transport Medium	D1, DS1_1	Frequently Detected	CORE	98.9	92

Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), AmpliSens (n=1), AmpliSens - AmpliSens Real Time PCR (n=1), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics High-Plex (n=1), BD Molecular Diagnostics - BD MAX (n=3), Cepheid (n=3), Cepheid - Cepheid Xpert kit (n=3), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Seegene - Seegene Allplex (n=4), Seegene - Seegene Anyplex II (n=2), TIB MOLBIOL (n=1), TIB MOLBIOL - TIB MOLBIOL LightMix (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Alinity m (n=7), Diagenode - Diagenode Real Time kit (n=6), Hologic - Hologic Aptima (n=16), Roche - Roche Cobas 6800/8800 (n=11)

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Individual Report	QCMD 2021 Trichomonas vaginalis EQA Programme	QCMD Quality Control for Molecular Diagnostics

Catalogue Code: QAP184202	Ref Code: TV21	Challenge: S	Analysis Type: Qualitative	Dataset: 466563	Report UID: 2677/466563/3611	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.
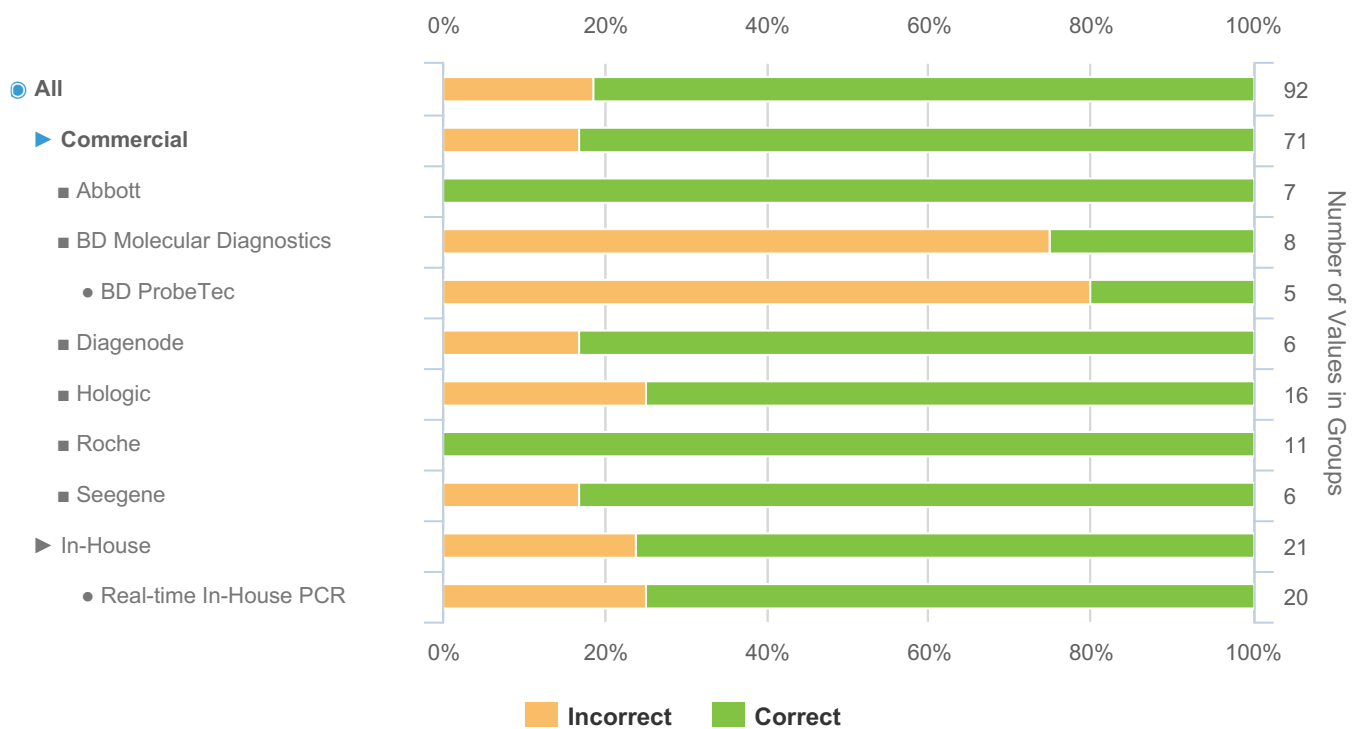
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or 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.

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

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Catalogue Code: QAP184202	Ref Code: TV21	Challenge: S	Analysis Type: Qualitative	Dataset: 466563	Report UID: 2677/466563/3611	Laboratory CZ023

TV21S-07 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	*(n)*
TV21S-07	Trichomonas vaginalis	Transport Medium	DS1_3	Detected	EDUCATIONAL	81.5	92

Group	Number of Values in Groups
● All	92
► Commercial	71
■ Abbott	7
■ BD Molecular Diagnostics	8
● BD ProbeTec	5
■ Diagenode	6
■ Hologic	16
■ Roche	11
■ Seegene	6
► In-House	21
● Real-time In-House PCR	20

Legend: ▮ Incorrect ▮ Correct

Groups below n=5: AB Analitica (n=4), AB Analitica - AB Analitica REALQUALITY RQ (n=4), AmpliSens (n=1), AmpliSens - AmpliSens Real Time PCR (n=1), AusDiagnostics (n=1), AusDiagnostics - AusDiagnostics High-Plex (n=1), BD Molecular Diagnostics - BD MAX (n=3), Cepheid (n=3), Cepheid - Cepheid Xpert kit (n=3), ELITech Group (n=3), ELITech Group - Elitech Elite Real Time kit (n=3), GeneProof (n=2), GeneProof - GeneProof Real Time PCR kit (n=2), PathoFinder (n=1), PathoFinder - PathoFinder Real Time PCR (n=1), Randox (n=1), Randox - Randox Multiplex Array (n=1), Seegene - Seegene Allplex (n=4), Seegene - Seegene Anyplex II (n=2), TIB MOLBIOL (n=1), TIB MOLBIOL - TIB MOLBIOL LightMix (n=1), In-House - Conventional In-House PCR (n=1)

Groups Rolled Up: Abbott - Abbott Alinity m (n=7), Diagenode - Diagenode Real Time kit (n=6), Hologic - Hologic Aptima (n=16), Roche - Roche Cobas 6800/8800 (n=11)

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