

# Individual Report

## QCMD 2018 Methicillin Resistant Staphylococcus aureus DNA EQA Programme



<b>Catalogue Code:</b> QAB064124	<b>Ref Code:</b> MRSADNA18	<b>Challenge:</b> S	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 207635	<b>Report UID:</b> 2677/207635/1403	<b>Laboratory:</b> CZ023
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### Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships <sup>[1]</sup>	Detection Frequency <sup>[2]</sup>	Sample Status <sup>[3]</sup>	Percentage Correct (All) <sup>[4]</sup>	
						(%)	(n)
MRSADNA18S-01	MRSA mecC	MH Broth		Detected	CORE	72.3	94
MRSADNA18S-02	MRSA N315 + MSSA 29213	MH Broth		Detected	CORE	93.6	94
MRSADNA18S-03	MRSA N315	MH Broth	DS1_1	Frequently Detected	CORE	98.9	94
MRSADNA18S-04	MRSA N315	MH Broth	D1, DS1_2	Frequently Detected	CORE	96.8	94
MRSADNA18S-05	MRSA ST398	MH Broth	DS2_1	Frequently Detected	CORE	97.9	94
MRSADNA18S-06	MRSA N315	MH Broth	DS1_3	Detected	EDUCATIONAL	86.2	94
MRSADNA18S-07	MSSA 29213 + MRCoNS 634	MH Broth		Negative	EDUCATIONAL	67.0	94
MRSADNA18S-08	MRSA ST398	MH Broth	DS2_2	Detected	EDUCATIONAL	86.2	94
MRSADNA18S-09	MRSA N315	MH Broth	D1, DS1_2	Frequently Detected	CORE	95.7	94
MRSADNA18S-10	MRSA Negative	MH Broth		Negative	CORE	100.0	94
MRSADNA18S-11	MRSA N315 + MRCoNS 634	MH Broth		Detected	CORE	94.7	94

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[1] **Sample Relationships:** Indicates the relationships of the samples within this challenge. Dilution series are indicated 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

<b>EQA Assessment Group</b> <sup>[1]</sup>	Commercial
<b>Core Panel Detection (Qualitative) Score</b> <sup>[2]</sup>	0

### Core Panel Members Results

Sample Code	Qualitative Results			Your Quantitative Data (for information only) <sup>[3]</sup>		
	Percentage Correct (All) <sup>[4]</sup>	Your Result <sup>[5]</sup>	Detection Score <sup>[6]</sup>	Reported Value	Unitage	Cycle Threshold
MRSADNA18S-01	72.3	Positive	0		N/A	-
MRSADNA18S-02	93.6	Positive	0		N/A	-
MRSADNA18S-03	98.9	Positive	0		N/A	-
MRSADNA18S-04	96.8	Positive	0		N/A	-
MRSADNA18S-05	97.9	Positive	0		N/A	-
MRSADNA18S-09	95.7	Positive	0		N/A	-
MRSADNA18S-10	100.0	Negative	0		N/A	-
MRSADNA18S-11	94.7	Positive	0		N/A	-

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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.

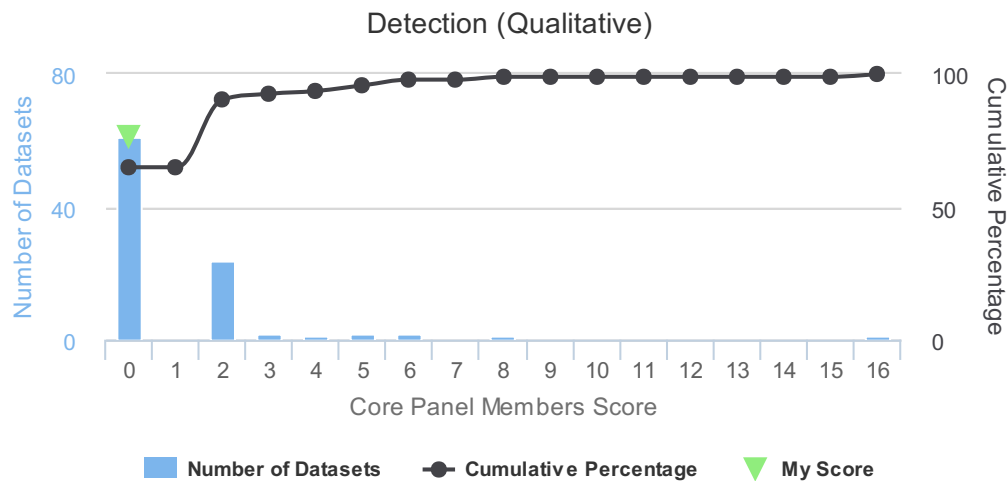
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative results for each panel member.

[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.*

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## My Workflow Details

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

<b>Name</b>	GeneProof MRSA PCR Kit (v2)
<b>Description</b>	MRSA
<b>Targets</b>	<span style="background-color: #c8e6c9; border-radius: 50%; padding: 2px;">B</span> Staphylococcus aureus
<b>Assays</b>	<ul style="list-style-type: none"> <li><span style="color: #0070c0;">🔍</span> <i>Extraction</i> - Manual Extraction Process           <ul style="list-style-type: none"> <li>● Commercial               <ul style="list-style-type: none"> <li>○ Kit Manufacturer: <i>GeneProof</i></li> <li>○ Kit Type: <i>PathogenFree DNA Isolation Kit</i></li> </ul> </li> </ul> </li> <li><span style="color: #0070c0;">📡</span> <i>Amplification</i> - Shanghai Hongshi Medical Technology - SLAN           <ul style="list-style-type: none"> <li>● Commercial               <ul style="list-style-type: none"> <li>○ Kit Manufacturer: <i>GeneProof</i></li> <li>○ Kit Type: <i>GeneProof MRSA PCR Kit</i></li> <li>○ Kit Version: <i>ISEX</i></li> </ul> </li> </ul> </li> </ul>

## 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
MRSADNA18S-06	86.2	Positive	0		N/A	-
MRSADNA18S-07	67.0	Negative	0		N/A	-
MRSADNA18S-08	86.2	Positive	0		N/A	-


[1] **Quantitative Data (for information only):** This is the quantitative value, unitage and cycle threshold you provided when you submitted your results. For qualitative programmes this information is not used as part of your formal EQA assessment.

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

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

[4] **Detection Score:** Your detection (qualitative) scores are based on the assigned detection frequency of each panel members, where 0 (zero) is "highly satisfactory" and 3 (three) is "highly unsatisfactory". Scores are provided for individual panel members.

**For further details please refer to the current participant manual.**

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## Further Programme Details

Number of Participants	88
Number of Countries	21
Number of Respondents	79
Number of Datasets Submitted	94
Qualitative Results Returned	94 (100.0%)

## Comments

The *mecC* resistance gene was first identified in *mecA* negative isolates from humans and cattle. In recent years, while the frequency of the *mecC* resistance mechanism remains low, the reported prevalence in both clinical and non-clinical samples has been increasing across Europe and as far afield as Australasia.

Although a clinical laboratory employing traditional methods such as antibiotic susceptibility testing would generally establish phenotypic methicillin resistance in *mecC* containing isolates, these isolates typically give negative results when conventional molecular methods targeting only the *mecA* gene are used. This can potentially hinder the diagnosis of MRSA infections.

As a result, an increasing number of molecular assays now incorporate primer / probe combinations that allow them to detect both *mecA* and *mecC*. This enables the laboratory to detect both resistance mechanisms as well as differentiate between *mecA* and *mecC* which can provide important epidemiological information.


Within the 2018 MRSA EQA Programme, panel member MRSADNA18-01 contained *mecC*. Due to the importance of this emerging resistance gene in MRSA diagnostics, this panel member was considered by the EQA programme Scientific Expert group to be a 'core' panel member and will be scored as such within this and future EQA programmes.

## References:

- García-Álvarez L, Holden MT, Lindsay H, Webb CR, Brown DF, Curran MD, Walpole E, Brooks K, Pickard DJ, Teale C, Parkhill J, Bentley SD, Edwards GF, Girvan EK, Kearns AM, Pichon B, Hill RL, Larsen AR, Skov RL, Peacock SJ, Maskell DJ, Holmes MA. Methicillin-resistant *Staphylococcus aureus* with a novel *mecA* homologue in human and bovine populations in the UK and Denmark: a descriptive study. *Lancet Infect Dis*. 2011 Aug;11(8):595-603. doi: 10.1016/S1473-3099(11)70126-8.
- Becker K, Denis O, Roisin S, Mellmann A, Idelevich EA, Knaack D, van Alen S, Kriegeskorte A, Köck R, Schaumburg F, Peters G, Ballhausen B. Detection of *mecA*- and *mecC*-Positive Methicillin-Resistant *Staphylococcus aureus* (MRSA) Isolates by the New Xpert MRSA Gen 3 PCR Assay. *J Clin Microbiol*. 2016 Jan;54(1):180-4. doi: 10.1128/JCM.02081-15. Epub 2015 Oct 21.
- Gavin K, Paterson, Ewan M. Harrison, and Mark A. Holmes The emergence of *mecC* methicillin-resistant *Staphylococcus aureus*. *Trends Microbiol*. 2014 Jan; 22(1): 42–47. doi: 10.1016/j.tim.2013.11.003 PMID: PMC3989053.
- Petersen A, Stegger M, Heltberg O, Christensen J, Zeuthen A, Knudsen LK, Epidemiology of methicillin-resistant *Staphylococcus aureus* carrying the novel *mecC* gene in Denmark corroborates a zoonotic reservoir with transmission to humans. *Clin Microbiol Infect*. 2013;19:E16–22. DOI PubMed.

## EQA Programme Aims


To assess the performance of laboratories in the detection of Methicillin Resistant *S. aureus*.

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### 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](mailto:neutraloffice@qcmd.org)).

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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.

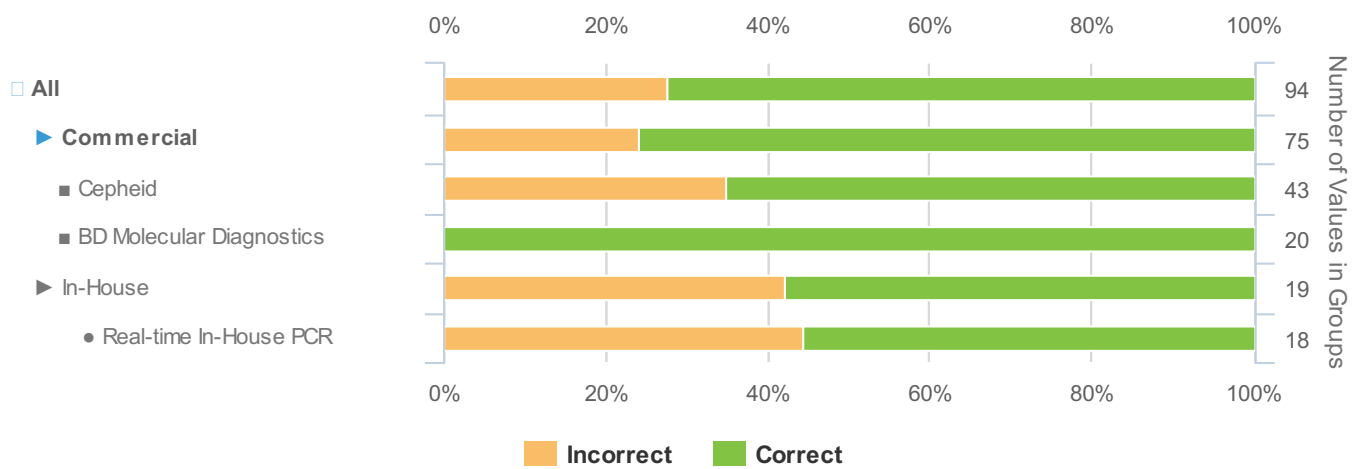
To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or 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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**MRSADNA18S-01 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-01	MRSA mecC	MH Broth		Detected	CORE	72.3	94



**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)



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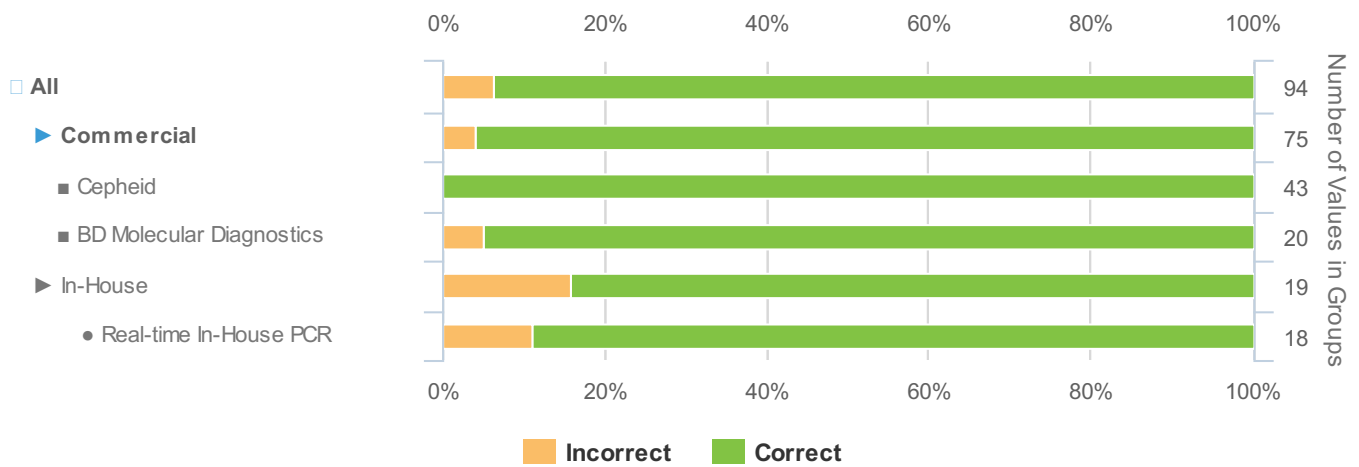
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### MRSADNA18S-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-02	MRSA N315 + MSSA 29213	MH Broth		Detected	CORE	93.6	94



**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

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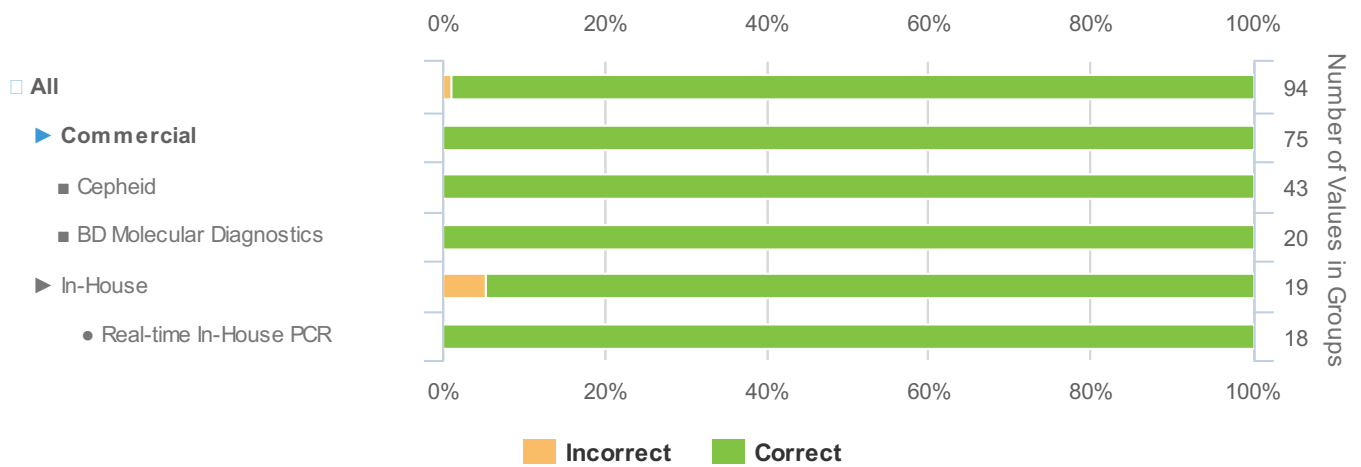
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### MRSADNA18S-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-03	MRSA N315	MH Broth	DS1_1	Frequently Detected	CORE	98.9	94



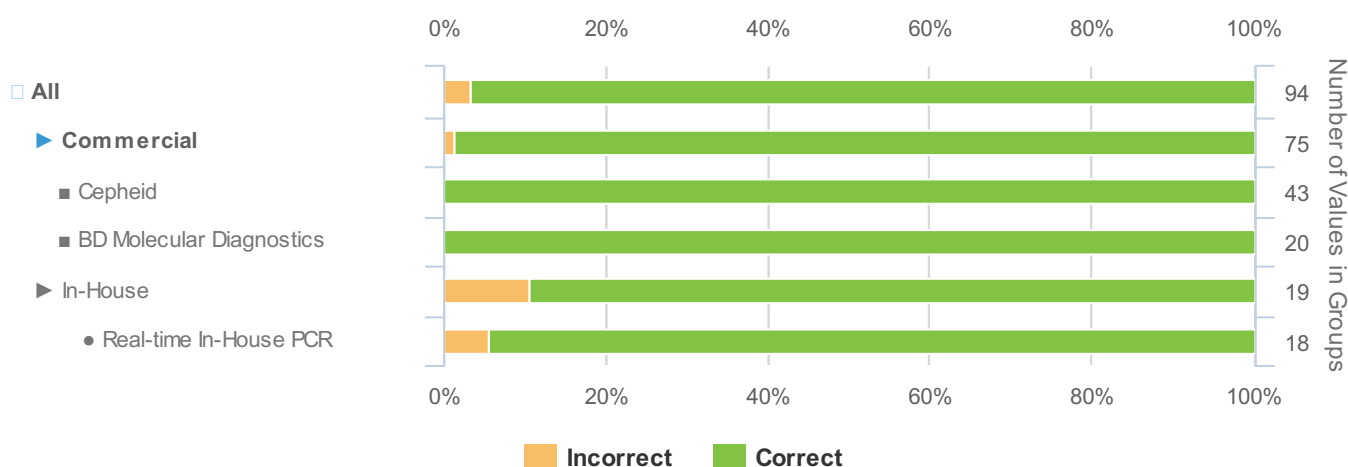
**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

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**MRSADNA18S-04 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-04	MRSA N315	MH Broth	D1, DS1_2	Frequently Detected	CORE	96.8	94



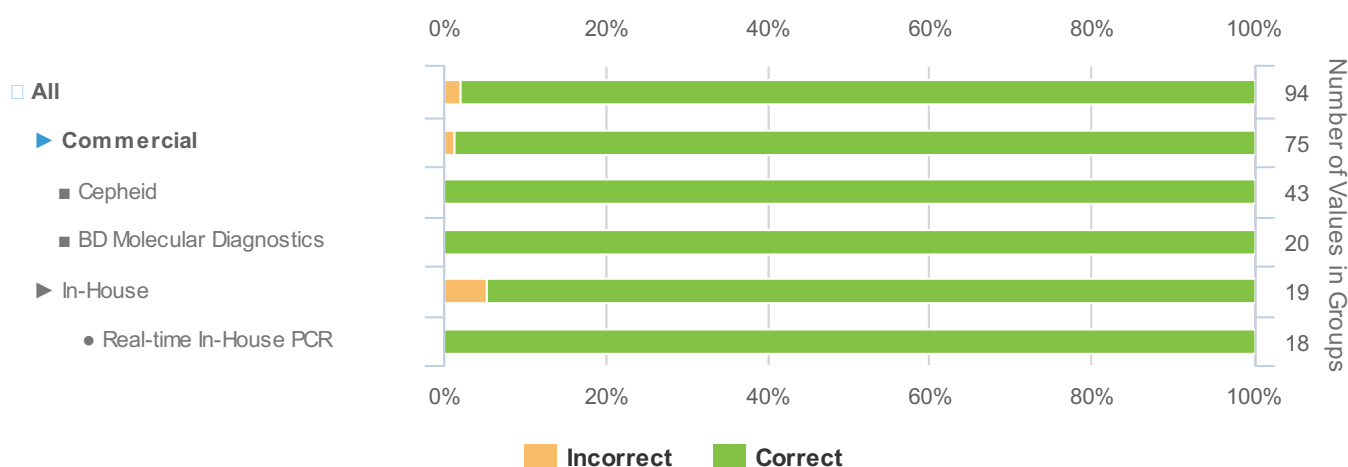
**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

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**MRSADNA18S-05 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-05	MRSA ST398	MH Broth	DS2_1	Frequently Detected	CORE	97.9	94



**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

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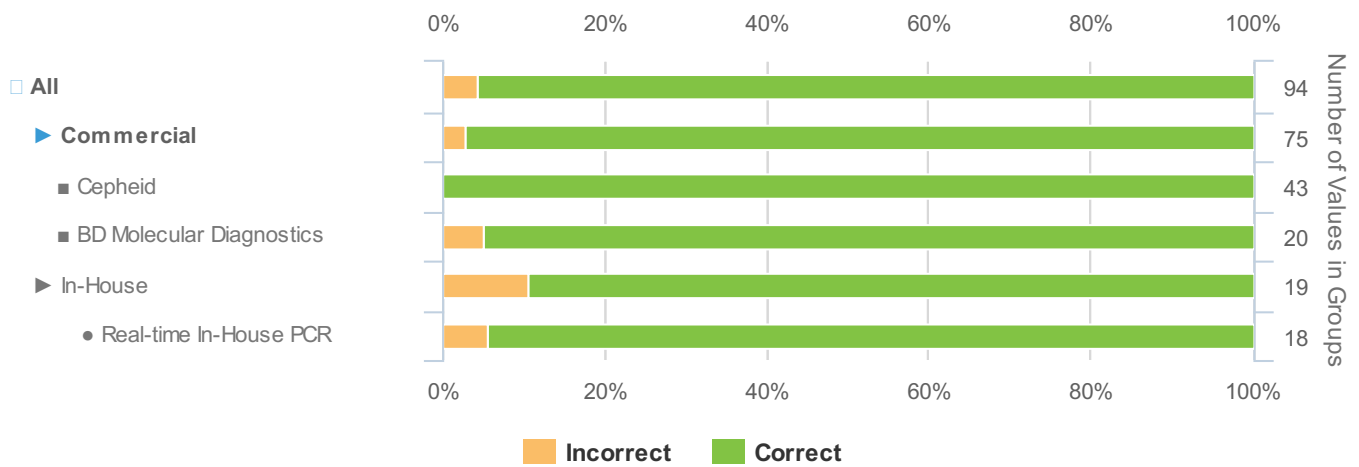
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### MRSADNA18S-09 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-09	MRSA N315	MH Broth	D1, DS1_2	Frequently Detected	CORE	95.7	94



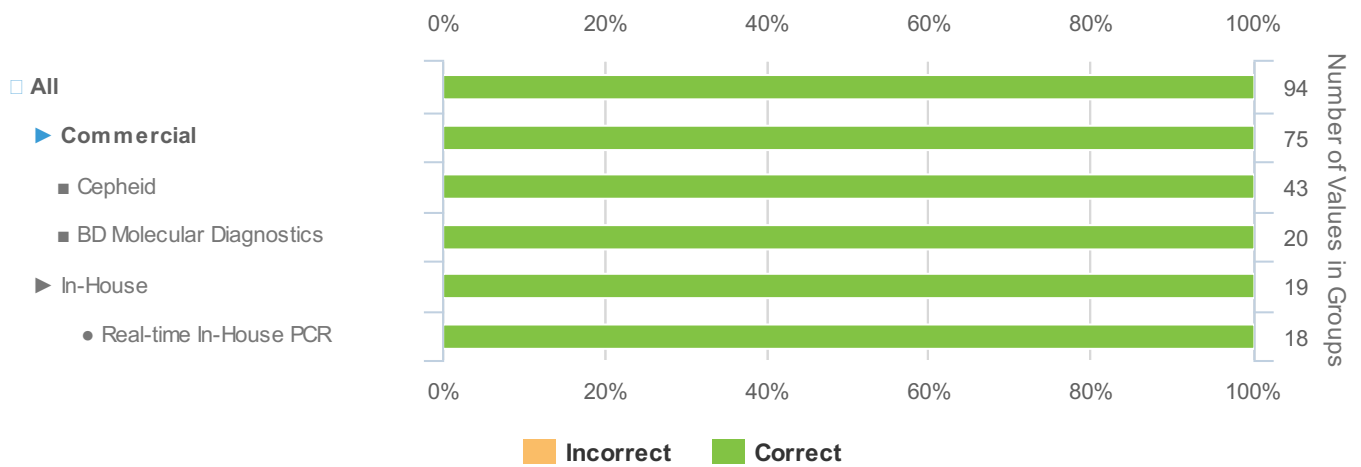
**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

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**MRSADNA18S-10 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-10	MRSA Negative	MH Broth		Negative	CORE	100.0	94



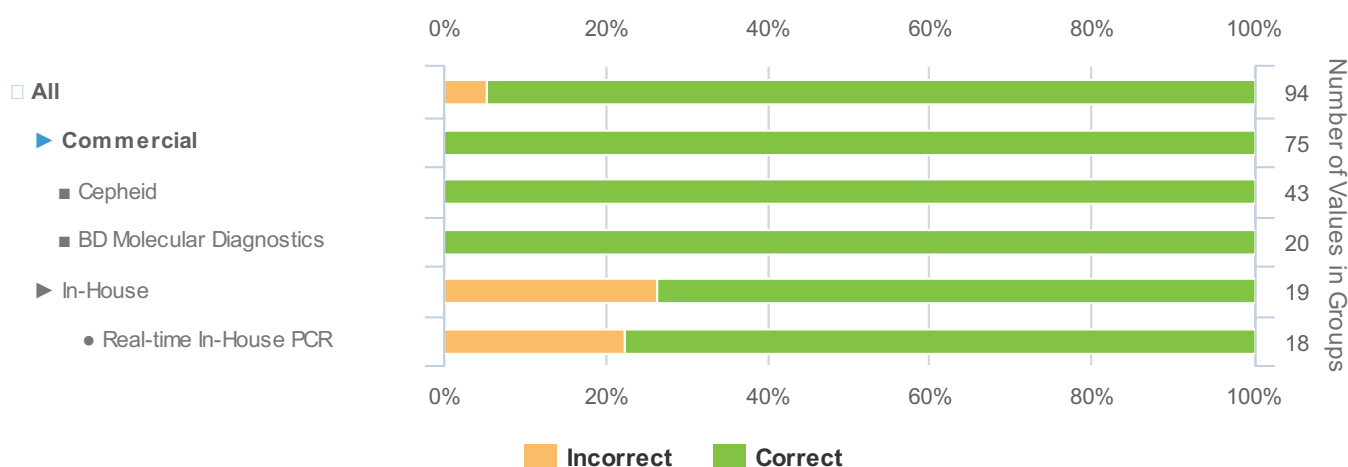
**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

<b>Catalogue Code:</b> QAB064124	<b>Ref Code:</b> MRSADNA18	<b>Challenge:</b> S	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 207635	<b>Report UID:</b> 2677/207635/1403	<b>Laboratory:</b> CZ023
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**MRSADNA18S-11 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-11	MRSA N315 + MRCoNS 634	MH Broth		Detected	CORE	94.7	94



**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

<b>Catalogue Code:</b> QAB064124	<b>Ref Code:</b> MRSADNA18	<b>Challenge:</b> S	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 207635	<b>Report UID:</b> 2677/207635/1403	<b>Laboratory</b> CZ023
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**Additional Educational Samples Information**

The following section has been categorised as shown below:

Educational ► Qualitative

**Individual Panel Member Analysis (Qualitative)**

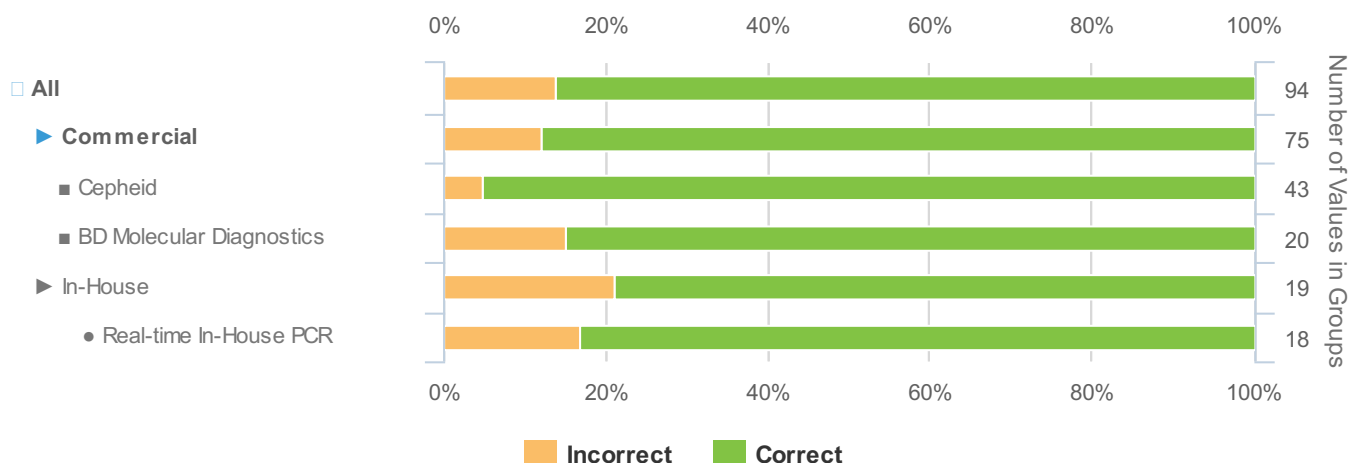
Qualitative analysis for each panel member is provided in relation to your EQA assessment group. EQA assessment groups are established using the molecular workflow information reported by all participants within this EQA challenge / distribution. The principal level of assessment is at the individual 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.

**MRSADNA18S-06 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-06	MRSA N315	MH Broth	DS1_3	Detected	EDUCATIONAL	86.2	94





# Individual Report

## QCMD 2018 Methicillin Resistant Staphylococcus aureus DNA EQA Programme



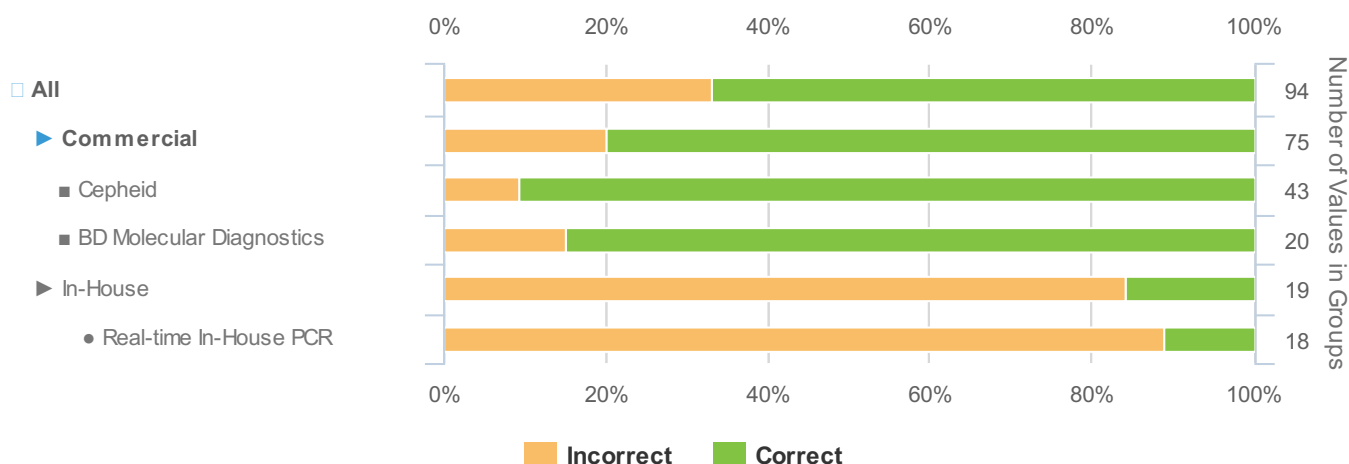
<b>Catalogue Code:</b> QAB064124	<b>Ref Code:</b> MRSADNA18	<b>Challenge:</b> S	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 207635	<b>Report UID:</b> 2677/207635/1403	<b>Laboratory:</b> CZ023
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**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

### MRSADNA18S-07 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-07	MSSA 29213 + MRCoNS 634	MH Broth		Negative	EDUCATIONAL	67.0	94



**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

# Individual Report

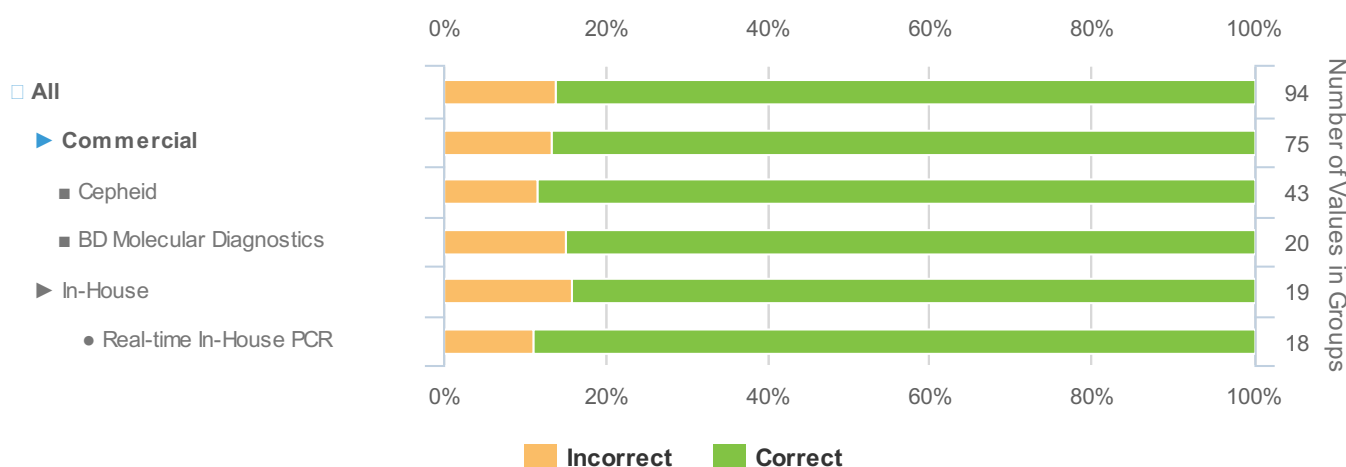
## QCMD 2018 Methicillin Resistant Staphylococcus aureus DNA EQA Programme



<b>Catalogue Code:</b> QAB064124	<b>Ref Code:</b> MRSADNA18	<b>Challenge:</b> S	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 207635	<b>Report UID:</b> 2677/207635/1403	<b>Laboratory:</b> CZ023
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### MRSADNA18S-08 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
MRSADNA18S-08	MRSA ST398	MH Broth	DS2_2	Detected	EDUCATIONAL	86.2	94



**Groups below n=5:** Amplex (n=1), Amplex - eazyplex MRSA (n=1), Roche (n=1), Roche - Roche LightCycler (n=1), Certest (n=1), Certest - Certest Real Time PCR (n=1), Progenie (n=1), Progenie - Progenie Molecular RealCycler (n=1), R-Biopharm (n=4), R-Biopharm - R-Biopharm RIDA Gene (n=4), GeneProof (n=1), GeneProof - GeneProof Real Time PCR kit (n=1), Vitassay (n=1), Vitassay - Vitassay Real-Time PCR (n=1), Master Diagnostica (n=2), Master Diagnostica - Master Diagnostica Flow Chip (n=2), In-House - Conventional In-House PCR (n=1)

**Groups Rolled Up:** Cepheid - Cepheid Xpert kit (n=43), BD Molecular Diagnostics - BD MAX (n=20)

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