

**PCR-/NAT MRSA / cMRSA
 (RV 539) Mai 2020**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2015391	∅	62 / 72, 73	MSSA + CoNS (<i>S. aureus</i> , <i>S. epidermidis</i> oxa ^R , PVL-neg) (~1x10 ⁵ CFU/mL)
2015392	+++	61 / 72	MRSA (<i>S. aureus</i> , oxa ^R , mecC pos , PVL-neg, spa:t10009) (~ 5x10 ⁵ CFU/mL)
2015393	++	61 / 72	MRSA (<i>S. aureus</i> , oxa ^R , PVL-neg, spa:t 014) (~ 5x10 ⁴ CFU/mL)
2015394	∅	62	<i>Escherichia coli</i> K12

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 281</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	<i>2015391</i>	<i>2015392</i>	<i>2015393</i>	<i>2015394</i>		<i>2015391</i>	<i>2015392</i>	<i>2015393</i>	<i>2015394</i>
<i>Befund Result</i>									
Positiv	21	230	277	3	n.d.	1	1	1	1
Negativ	252	51	3	278	nein no	280	280	280	280
Fraglich Questionable	8¹⁾	0	1	0	ja yes	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwendern verschiedener Methoden.

Absolute numbers and relative frequency of reported true positive and true negative results among various NAT methods.

NAT-Methode [Code] (total number *)	NAT richtig positiv <i>True positive results</i>				NAT richtig negativ <i>True negative results</i>			
	2015392		2015393		2015391		2015394	
	<i>Absolut Absolute</i>	<i>%</i>	<i>Absolut Absolute</i>	<i>%</i>	<i>Absolut Absolute</i>	<i>%</i>	<i>Absolut Absolute</i>	<i>%</i>
Amplex eazyplex MRSA plus (n = 4)	4	100	4	100	0	0	4	100
BD MAX/ BD GeneOhm MRSA (n = 43)	37	86	42	98	42	98	41	95
Cepheid Xpert MRSA (n = 141)	106	75	139	99	141	100	141	100
HAIN FluoroType/ GenoType (n = 27)	27	100	26	96	20	74	26	96
Roche COBAS MRSA (n = 3)	0	0	3	100	3	100	3	100
VELA Sentosa SA Direct MRSA (n = 4)	4	100	4	100	3	75	4	100

r-Biopharm RIDAGENE MRSA (n = 28)	28	100	28	100	26	93	28	100
Other commercial tests (n = 29)	29	100	29	100	27	93	29	100
In house PCR assay (n = 17)	10	59	17	100	9	53	17	100

Comments: ¹⁾ For participants who indicated the use of assay concepts for the independent detection of the *mecA* gene and a *S. aureus* species marker gene, "questionable" results were accepted in the course of issuing the official QC certificate.