

**PCR-/NAT MRSA / cMRSA
 (RV 539) November 2019**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1925391	+++	61 / 72	MRSA (<i>S. aureus</i> , oxa ^R , PVL-neg) (~5x10 ⁵ CFU/mL)
1925392	∅	62	<i>Escherichia coli</i> K12
1925393	+++	61 / 72	MRSA (<i>S. aureus</i> , oxa ^R , PVL-neg) (~1x10 ⁵ CFU/mL)
1925394	∅	62 / 72	MSSA (<i>S. aureus</i> , oxa ^S but SCCmec false pos.) mecA dropout variant (~5x10 ⁵ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 288</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1925391	1925392	1925393	1925394	1925391	1925392	1925393	1925394	
Befund <i>Result</i>									
Positiv	286	3	282	23	n.d.	1	1	1	1
Negativ	2	283	3	261	nein <i>no</i>	287	287	287	287
Fraglich <i>Questionable</i>	0	2	3	4	ja <i>yes</i>	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwenden 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>			
	1925391		1925393		1925392		1925394	
	<i>Absolut</i> <i>Absolute</i>	%	<i>Absolut</i> <i>Absolute</i>	%	<i>Absolut</i> <i>Absolute</i>	%	<i>Absolut</i> <i>Absolute</i>	%
BD MAX/BD GeneOhm MRSA [20] (n=46)	45	98	45	100	45	100	38	84
Hain FluoroT / GenoT MRSA [21] (n=28)	27	96	27	96	27	96	27	96
r-Biopharm RIDAGENE [22] (n=29)	29	100	28	97	29	100	27	93
Cepheid Xpert / GeneXpert [23] (n=146)	146	100	145	100	143	99	142	99
Other commercial tests [27] (n =21)	21	100	20	100	21	100	16	76
<i>In house</i> PCR assay [28] (n = 18)	18	100	17	94	18	100	11	65

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 certificates