

**PCR-/NAT MRSA / cMRSA
 (RV 539) November 2016**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1625391	∅	62 / 73	CoNS (<i>S. epidermidis</i> , oxa ^R) (~1x10 ⁵ CFU/mL)
1625392	+++	61 / 72	MRSA MREJ (right extremity junction) type IV (<i>S. aureus</i> , oxa ^R , PVL-neg) (~ 1x10 ⁵ CFU/mL)
1625393	∅	62 / 72	MSSA (~ 1x10 ⁴ CFU/mL)
1625394	+++	61 / 71,72	cMRSA (<i>S. aureus</i> , oxa ^R , PVL-pos, spa:t 310) (~1x10 ⁵ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 305</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	<i>1625391</i>	<i>1625392</i>	<i>1625393</i>	<i>1625394</i>	<i>1625391</i>	<i>1625392</i>	<i>1625393</i>	<i>1625394</i>	
<i>Befund Result</i>									
Positiv	5	283	7	302	n.d.	2	2	2	2
Negativ	299	21	297	2	nein no	303	303	303	303
Fraglich Questionable	1	1	1	1	ja yes	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>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
BD MAX/BD GeneOhm MRSA [20] (n=39)	77	77 / 78	99	78	78 / 78	100
Hain FT MRSA [21] (n=25)	50	50 / 50	100	50	50 / 50	100
RIDAGENE MRSA [23] (n=31)	61	61 / 62	98	60	60 / 62	97
Cepheid Xpert / GeneXpert [24] (n=138)	273	273/ 275 [§]	99	269	269 / 274 [§]	98
LC MRSA Advanced (Roche) [25] (n=19)	22	22 / 38	58	38	38 / 38	100
TIB Molbiol LightMix MRSA [26] (n=1)	1	1 / 2	50	2	2 / 2	100
Commercial assay kit [27] (n=22)	42	42 / 44	95	42	42 / 44	95
In house PCR assay [28] (n=27)	53	53 / 54	98	51	51 / 54	94
Andere / k.A. / other [29] (n=17)	33	33 / 33 [§]	100	33	33 / 34	97

[§] Due to reporting questionable results, the number of true results (denominator in the „relative“ column) has been reduced.

* Durch Mehrfachnennung oder fehlende Angabe kann die absolute Zahl der Ergebnisse (Tab. 2) von der Anzahl der Teilnehmer abweichen.
 Due to reporting results of multiple assay systems or missing specifications, the effective numbers are not correlating with the number of participants.