

**PCR-/NAT MRSA / cMRSA
 (RV 539) November 2011**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.
Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1125391	+++	61 / 72	La-MRSA (<i>S. aureus</i> , <i>oxa</i> ^R , PVL-neg) (~ 1x10 ⁵ CFU/mL)
1125392	∅	62 / 76	CoNS (<i>oxa</i> ^S) (~ 1x10 ⁴ CFU/mL)
1125393	∅	62 / 71,72	cMSSA (<i>S. aureus</i> , <i>oxa</i> ^S , PVL-pos) (~ 1x10 ⁵ CFU/mL)
1125394	∅	62	<i>Escherichia coli</i> K12

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.
Absolute numbers of reported individual results.

<i>n = 208</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1125391	1125392	1125393	1125394		1125391	1125392	1125393	1125394
Befund <i>Result</i>									
Positiv	205	0	6	0	n.d.	0	0	0	0
Negativ	2	207	202	207	nein <i>no</i>	208	207	208	208
Fraglich <i>Questionable</i>	1	1	0	1	ja <i>yes</i>	0	1	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 GeneOhm MRSA [20] (n=35)	35	35 / 35	100	105	105 / 105	100
GT MRSA Direct/ GQ MRSA [21] (n=39)	39	39 / 39	100	116	116 / 116 §	100
Hyplex <i>StaphyloResist</i> [22] (n=5)	5	5 / 5	100	15	15 / 15	100
LightCycler Kits [23] (n=2)	2	2 / 2	100	6	6 / 6	100
GeneXpert (Cepheid) [24] (n=57)	57	57 / 57	100	171	171 / 171	100
LC MRSA Advanced (Roche) [25] (n=22)	22	22 / 22	100	66	66 / 66	100
Commercial assay kit [27] (n=10)	9	9 / 10	90	25	25 / 29 §	90
<i>In house</i> PCR assay [28] (n=42)	41	41 / 41 §	100	123	123 / 126	98
Andere / k.A. / other [29] (n=9)	9	9 / 9	100	26	26 / 27	96

* 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.

§ Due to reporting questionable results, the number of true results (denominator in the "relative" column) have been reduced.

Comments: ¹⁾ A dedicated PVL / cMRSA identification (*lukFS* gene detection) was performed by 53 laboratories. With the exception of three laboratories, all reported results were correct.