

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



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1115391	∅	62	<i>Escherichia coli</i> K12
1115392	++	61 / 71,72	cMRSA (<i>S. aureus</i> , oxa ^R , PVL-pos) (~ 1x10 ⁵ CFU/mL)
1115393	++	61 / 71,72	cMRSA (<i>S. aureus</i> , oxa ^R , PVL-pos) (~ 1x10 ⁵ CFU/mL)
1115394	∅	62 / 76	CoNS (oxa ^R) (~ 1x10 ⁴ CFU/mL)

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>			
	1115391	1115392	1115393	1115394	1115391	1115392	1115393	1115394
<i>Befund Result</i>								
Positiv	2	207	208	4	n.d.	2	2	2
Negativ	206	0	0	202	nein no	206	206	206
Fraglich Questionable	0	1	0	2	ja yes	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>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
BD GeneOhm MRSA [20] (n=38)	76	76 / 76	100	76	76 / 76	100
GenoType MRSA Direct [21] (n=41)	82	82 / 82	100	81	81 / 82	99
Hyplex <i>StaphyloResist</i> [22] (n=6)	11	11 / 11 §	100	11	11 / 11 §	100
LightCycler Kits [23] (n=4)	8	8 / 8	100	8	8 / 8	100
GeneXpert (Cepheid) [24] (n=50)	100	100 / 100	100	99	99 / 100	99
LC MRSA Advanced (Roche) [25] (n=20)	40	40 / 40	100	40	40 / 40	100
Commercial assay kit [27] (n=10)	20	20 / 20	100	19	19 / 19 §	100
<i>In house</i> PCR assay [28] (n=42)	84	84 / 84	100	80	80 / 84	95
<i>Andere / k.A. / other</i> [29] (n=9)	18	18 / 18	100	18	18 / 18	100

* 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 cMRSA identification (*lukFS* gene detection) was performed by 52 laboratories. All reported results were correct.