

**PCR-/NAT *Borrelia burgdorferi*
 (RV 535) November 2012**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1225351	∅	62	<i>Escherichia coli</i> K12
1225352	++	61	<i>Borrelia valaisiana</i> (~1x10 ⁴ organisms/mL)
1225353	+++	61	<i>Borrelia afzelii</i> (~1x10 ⁵ organisms/mL)
1225354	∅	62	<i>Borrelia duttonii</i>

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

<i>n = 99</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1225351	1225352	1225353	1225354		1225351	1225352	1225353	1225354
Befund <i>Result</i>									
Positiv	0	95	98	5	n.d.	1	1	1	1
Negativ	99	3	1	93	nein <i>no</i>	98	98	98	98
Fraglich <i>Questionable</i>	0	1	0	1	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.

artus *Borrelia* LC kit (Qiagen)

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>	%
artus <i>Borrelia</i> LC Kit [20] (n = 20)	40	40 / 40	100	40	40 / 40	100
Demeditec GenFlow [21] (n = 10)	19	19 / 20	95	20	20 / 20	100
Other/commercial tests [27] (n = 12)	24	24 / 24	100	23	23 / 24	96
<i>In house</i> PCR assay [28] (n = 57)	110	110 / 113 §	97	109	109 / 113 §	96

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