

**PCR-/NAT *Borrelia burgdorferi*  
 (RV 535) Mai 2016**



**Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.**

*Sample composition and expected results.*

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1615351	++	61	<i>Borrelia afzelii</i> (~ 1x10 <sup>4</sup> organisms/mL)
1615352	∅	62	<i>Treponema phagedenis</i>
1615353	+++	61	<i>Borrelia afzelii</i> (~ 1x10 <sup>5</sup> organisms/mL)
1615354	+	61	<i>Borrelia afzelii</i> (~ 1x10 <sup>3</sup> organisms/mL)

**Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.**

*Absolute numbers of reported individual results.*

<i>n = 121</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	<b>1615351</b>	<b>1615352</b>	<b>1615353</b>	<b>1615354</b>		<b>1615351</b>	<b>1615352</b>	<b>1615353</b>	<b>1615354</b>
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	121	3	120	117	n.d.	1	1	1	1
<b>Negativ</b>	0	118	1	3	nein <i>no</i>	120	120	120	120
<b>Fraglich</b> <i>Questionable</i>	0	0	0	1	ja <i>yes</i>	0	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.*

<b>NAT-Methode</b> [Code] (total number *)	<b>NAT richtig positiv</b> <i>True positive results</i>			<b>NAT richtig negativ</b> <i>True negative results</i>		
	<b>Absolut</b> <i>Absolute</i>	<b>Relativ</b> <i>Relative</i>	<b>%</b>	<b>Absolut</b> <i>Absolute</i>	<b>Relativ</b> <i>Relative</i>	<b>%</b>
artus <i>Borrelia</i> LC Kit [20] (n = 23)	69	69 / 69	100	23	23 / 23	100
Demeditec GenFlow [21] (n = 4)	12	12 / 12	100	4	4 / 4	100
LightMix <i>Borrelia</i> [22] (n = 7)	21	21 / 21	100	7	7 / 7	100
Other/commercial tests [27] (n = 37)	109	109 / 110 §	99	36	36 / 37	97
<i>In house</i> PCR assay [28] (n = 55)	162	162 / 165	98	53	53 / 55	96

§ 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