

**PCR-/NAT *Borrelia burgdorferi*  
 (RV 535) Mai / Juni 2019**



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

*Sample composition and expected results.*

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1915351	∅	62	<i>Borrelia recurrentis</i> (~ 5x10 <sup>5</sup> organisms/mL)
1915352	+++	61	<i>Borrelia garinii</i> OspA Typ7 (~ 5x10 <sup>5</sup> organisms/mL)
1915353	∅	62	<i>Treponema phagedenis</i>
1915354	+++	61	<i>Borrelia lusitaniae</i> (~ 5x10 <sup>5</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>				
	<i>1915351</i>	<i>1915352</i>	<i>1915353</i>	<i>1915354</i>	<i>1915351</i>	<i>1915352</i>	<i>1915353</i>	<i>1915354</i>	
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	24	120	3	108	n.d.	1	1	1	1
<b>Negativ</b>	91	1	118	13	nein <i>no</i>	114	120	120	120
<b>Fraglich</b> <i>Questionable</i>	6	0	0	0	ja <i>yes</i>	6	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 = 9)	18	18 / 27	66	9	9 / 9	100
GeneProof <i>B. burg.</i> [21] (n = 18)	37	37 / 49 <sup>§</sup>	76	18	18 / 18	100
LightMix <i>Borrelia</i> [22] (n = 7)	12	12 / 21	57	7	7 / 7	100
Other/commercial tests [27] (n = 36)	80	80 / 108	74	35	35 / 36	97
<i>In house</i> PCR assay [28] (n = 52)	107	107 / 155 <sup>§</sup>	69	50	50 / 52	96
Andere/ k.A. / other [29] (n = 2)	4	4 / 6	67	2	2 / 2	100

<sup>§</sup> 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