

**PCR-/NAT *Borrelia burgdorferi*  
(RV 535) Mai 2020**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2015351	+++	61	<i>Borrelia burgdorferi</i> (~ 5x10 <sup>5</sup> organisms/mL)
2015352	+	61	<i>Borrelia burgdorferi</i> (~ 5x10 <sup>3</sup> organisms/mL)
2015353	++	61	<i>Borrelia burgdorferi</i> (~ 5x10 <sup>4</sup> organisms/mL)
2015354	∅	62	<i>Escherichia coli</i> K12

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

<i>n = 114</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	2015351	2015352	2015353	2015354		2015351	2015352	2015353	2015354
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	114	111	114	0	n.d.	0	0	0	0
<b>Negativ</b>	0	3	0	114	nein <i>no</i>	114	114	114	114
<b>Fraglich</b> <i>Questionable</i>	0	0	0	0	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>	
	2015351		2015352		2015353		2015354	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
GeneProof <i>B. burgdorferi</i> (n = 25)	25	100	25	100	25	100	25	100
HAIN FluoroType <i>Borrelia</i> (n = 5)	5	100	5	100	5	100	5	100
Mikrogen alphaCube <i>Borrelia</i> (n = 5)	5	100	4	80	5	100	5	100
Qiagen artus <i>Borrelia</i> (n = 5)	5	100	5	100	5	100	5	100
LightMix <i>Borrelia</i> (n = 6)	6	100	6	100	6	100	6	100
Other commercial tests (n = 23)*	23	100	22	96	23	100	23	100
<i>In house</i> PCR assay (n = 45)	45	100	44	98	45	100	45	100