

**PCR-/NAT *Borrelia burgdorferi*  
 (RV 535) Juni 2017**



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

*Sample composition and expected results.*

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1715351	++	61	<i>Borrelia garinii</i> OspA Typ3 (~ 5x10 <sup>4</sup> organisms/mL)
1715352	∅	62	<i>Escherichia coli</i> K12
1715353	+++	61	<i>Borrelia garinii</i> OspA Typ3 (~ 5x10 <sup>5</sup> organisms/mL)
1715354	+	61	<i>Borrelia garinii</i> OspA Typ3 (~ 5x10 <sup>3</sup> organisms/mL)

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

*Absolute numbers of reported individual results.*

<i>n = 127</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	<i>1715351</i>	<i>1715352</i>	<i>1715353</i>	<i>1715354</i>		<i>1715351</i>	<i>1715352</i>	<i>1715353</i>	<i>1715354</i>
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	123	1	125	114	n.d.	1	1	1	1
<b>Negativ</b>	3	126	2	13 <sup>1)</sup>	nein <i>no</i>	126	126	126	126
<b>Fraglich</b> <i>Questionable</i>	1	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> <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 = 3)	9	9 / 9	100	3	3 / 3	100
LightMix <i>Borrelia</i> [22] (n = 6)	12	12 / 18 <sup>§</sup>	67	6	6 / 6	100
Other/commercial tests [27] (n = 41)	120	120 / 123	98	40	40 / 41	98
<i>In house</i> PCR assay [28] (n = 56)	159	159 / 168	95	56	56 / 56	100
Anderer/ k.A. / other [29] (n = 1)	3	3 / 3	100	1	1 / 1	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*

**Comments:** <sup>1)</sup> As sample #1715354 contained a low number of *Borrelia burgdorferi* target organisms, negative PCR results were not rated “false negative” in this EQAS distribution.