

**PCR-/NAT *Borrelia burgdorferi*  
 (RV 535) November 2014**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1425351	<b>+</b>	<b>61</b>	<i>Borrelia spielmanii</i> (~ 1x10 <sup>3</sup> organisms/mL)
1425352	<b>∅</b>	<b>62</b>	<i>Borrelia turicatae</i> (~ 1x10 <sup>4</sup> organisms/mL)
1425353	<b>++</b>	<b>61</b>	<i>Borrelia spielmanii</i> (~ 1x10 <sup>4</sup> organisms/mL)
1425354	<b>+++</b>	<b>61</b>	<i>Borrelia spielmanii</i> (~ 1x10 <sup>5</sup> organisms/mL)

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

<i>n = 105</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	<b>1425351</b>	<b>1425352</b>	<b>1425353</b>	<b>1425354</b>		<b>1425351</b>	<b>1425352</b>	<b>1425353</b>	<b>1425354</b>
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	<b>94</b>	<b>11</b>	<b>102</b>	<b>104</b>	n.d.	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Negativ</b>	<b>10</b>	<b>91</b>	<b>2</b>	<b>1</b>	nein <i>no</i>	<b>104</b>	<b>102</b>	<b>104</b>	<b>104</b>
<b>Fraglich</b> <i>Questionable</i>	<b>1</b>	<b>3</b>	<b>1</b>	<b>0</b>	ja <i>yes</i>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>

**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 = 22)	<b>66</b>	66 / 66	<b>100</b>	<b>19</b>	19 / 21 <sup>§</sup>	<b>90</b>
Demeditec GenFlow [21] (n = 6)	<b>16</b>	16 / 18	<b>89</b>	<b>6</b>	6 / 6	<b>100</b>
LightMix <i>Borrelia</i> [22] (n = 6)	<b>17</b>	17 / 17 <sup>§</sup>	<b>100</b>	<b>6</b>	6 / 6	<b>100</b>
Other/commercial tests [27] (n = 17)	<b>50</b>	50 / 51	<b>98</b>	<b>12</b>	12 / 15 <sup>§</sup>	<b>80</b>
<i>In house</i> PCR assay [28] (n = 54)	<b>151</b>	151/ 161 <sup>§</sup>	<b>94</b>	<b>48</b>	48 / 54	<b>89</b>

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