

**PCR-/NAT *Borrelia burgdorferi*  
 (RV 535) November 2023**



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

*Sample composition and expected results.*

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
535 231024 01	∅	62	<i>Escherichia coli</i> K12
535 231024 02	+++	61	<i>Borrelia bavariensis</i> . (~ 5x10 <sup>5</sup> organisms/mL)
535 231024 03	+	61	<i>Borrelia bavariensis</i> . (~ 5x10 <sup>3</sup> organisms/mL)
535 231024 04	++	61	<i>Borrelia bavariensis</i> . (~ 5x10 <sup>4</sup> organisms/mL)

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

*Absolute numbers of reported individual results.*

n = 94	Proben Nr. (Sample no.)				Inhibition				
	01	02	03	04	01	02	03	04	
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	1	94	93	93	n.d.	2	2	2	2
<b>Negativ</b>	93	0	1	1	nein <i>no</i>	92	92	92	92
<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.*

NAT-Methode [Code] (total number *)	NAT richtig positiv <i>True positive results</i>						NAT richtig negativ	
	02		03		04		01	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
AID RDB 2225 Zecken-Screen. (n= 2)	2	100	2	100	1	50	2	100
Attomol B burg. Realtime LT (n= 1)	1	100	1	100	1	100	1	100
BIORON RealLine B.burgdorferi (n= 1)	1	100	1	100	1	100	1	100
Bruker-HAIN FluoroType Borrelia (n=3)	3	100	3	100	3	100	3	100
EliGene Borrelia RT (n= 2)	2	100	2	100	2	100	2	100
GeneProof B. burgdorferi (n= 20)	20	100	20	100	20	100	20	100
Gerbion diarella Borrelia (n= 3)	3	100	3	100	3	100	3	100
Ingenetix BactoReal B.burg.(n= 2)	2	100	2	100	2	100	2	100
Mikrogen alphaCube Borrelia (n= 21)	21	100	21	100	21	100	21	100

<b>LightMix Borrelia (n= 2)</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>
<b><i>In house</i> PCR assay (n= 29)</b>	<b>29</b>	<b>100</b>	<b>28</b>	<b>97</b>	<b>29</b>	<b>100</b>	<b>28</b>	<b>97</b>
<b>Other commercial tests (n= 8)</b>	<b>8</b>	<b>100</b>	<b>8</b>	<b>100</b>	<b>8</b>	<b>100</b>	<b>8</b>	<b>100</b>

**Comments:**

1. The following tests are listed under "Other commercial tests": Master diagnostica Tick-borne bacterial flow chip (1x), Novaplex Tick-borne (EU) Assay (RUO) (1x), CerTest VIASURE Tick Borne Diseases Real Time PCR Detection Kit (2x) and AMPLICON AmpliTest B. burgdorferi Real Time PCR (1x).