

**PCR-/NAT *Borrelia burgdorferi*
 (RV 535) November 2024**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
535A 241015 01	+++	61	<i>Borrelia afzelii</i> (~ 1x10 ⁵ organisms/mL)
535A 241015 02	∅	62	<i>Treponema phagedenis</i> (~ 5x10 ⁵ organisms/mL)
535A 241015 03	++	61	<i>Borrelia afzelii</i> (~ 1x10 ⁴ organisms/mL)
535A 241015 04	+++	61	<i>Borrelia mayonii</i> (~ 5x10 ⁵ organisms/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

n = 100	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	89	0	89	88	n.d.	1	1	1	1
Negativ	1	89	1	2	nein <i>no</i>	99	99	99	99
Fraglich <i>Questionable</i>	0	1	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	
	01		03		04		02	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
AID RDB 2225 Zecken-Screen. (n= 1)	1	100	1	100	1	100	1	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= 1)	1	100	1	100	1	100	1	100
VIASURE Tick Borne Diseases (n= 1)	1	100	1	100	1	100	1	100
EliGene Borrelia RT (n= 1)	4	100	4	100	4	100	4	100
GeneProof B. burgdorferi (n= 19)	18	95	18	95	18	95	19	100

Gerbion diarella Borrelia (n= 2)	2	100	2	100	2	100	2	100
Immundiagnostik MutaPLEX (n= 1)	1	100	1	100	1	100	1	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
Sacace TBEV, B.burg,... Real-TM (n=1)	1	100	1	100	1	100	1	100
LightMix Borrelia (n= 2)	2	100	2	100	2	100	2	100
In house PCR assay (n= 29)	29	100	29	100	28	97	28[§]	100
Other commercial tests (n= 7)	7	100	7	100	7	100	7	100

The following tests are listed under "Other commercial tests": AMPLICON AmpliTest B. burgdorferi (Real Time PCR) (1x), Biologig bB Borrelia sensu lato (1x), CerTest VIASURE Borrelia, Anaplasma & Coxiella Real Time PCR Detection Kit (1x), Master diagnostica Tick-borne bacterial flow chip (1x), Novaplex Tick-borne disease expanded assay (RUO) (1x), and Progenie (1x).

§ Fraglich Due to reporting questionable results, the number of true results has been reduced.