

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



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
535 230523 01	+++	61	<i>Borrelia bissetiae</i> (~ 5x10 ⁵ organisms/mL)
535 230523 02	+++	61	<i>Borrelia burgdorferi</i> s.s. (~ 5x10 ⁵ organisms/mL)
535 230523 03	∅	62	<i>Leptospira interrogans</i> (~ 5x10 ⁵ organisms/mL)
535 230523 04	+++	61	<i>Borrelia lusitaniae</i> (~ 1x10 ⁶ organisms/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

n = 113	Proben Nr. (Sample no.)				Inhibition				
	01	02	03	04	01	02	03	04	
Befund <i>Result</i>									
Positiv	113	112	0	111	n.d.	1	1	1	1
Negativ	0	1	113	2	nein <i>no</i>	112	112	112	112
Fraglich <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	
	01		02		04		03	
	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	2	100	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=4)	4	100	4	100	4	100	4	100
EliGene Borrelia RT (n= 4)	4	100	4	100	4	100	4	100
GeneProof B. burgdorferi (n= 26)	26	100	25	96	26	100	26	100
Gerbion diarella Borrelia (n= 3)	3	100	3	100	3	100	3	100
Immundiagnostik MutaPLEX (n= 1)	1	100	1	100	1	100	1	100
Ingenetix BactoReal B.burg.(n= 4)	4	100	4	100	4	100	4	100

Mikrogen alphaCube Borrelia (n= 22)	22	100	22	100	22	100	22	100
Sacace TBEV, B.burg,... Real-TM (n=1)	1	100	1	100	1	100	1	100
LightMix Borrelia (n= 4)	4	100	4	100	4	100	4	100
In house PCR assay (n= 30)	30	100	30	100	29	97	30	100
Other commercial tests (n= 10)	10	100	10	100	9	90	10	100

Comments:

1. The following tests are listed under "Other commercial tests": Master diagnostica Tick-borne bacterial flow chip (1x), Sacace Biotechnologies Borrelia burgdorferi Real-TM (1x), Vektor Best RealBest DNA Borrelia burgdorferi s.l. (Set 1) (1x), Novaplex Tick-borne (EU) Assay (RUO) (1x), CerTest VIASURE Tick Borne Diseases Real Time PCR Detection Kit (2x), DNA-TECHNOLOGY B. burgdorferi Real Time PCR Kit (1x) and InterLabService AmpliSens® TBEV, B.burgdorferi sl, A.phagocytophilum, E.chaffeensis/ E.muris-FRT (1x).