

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



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
535A 240521 01	+++	61	<i>Borrelia valaisiana</i> (~ 1x10 ⁶ organisms/mL)
535A 240521 02	+++	61	<i>Borrelia garinii</i> OspA Typ 6 (~ 5x10 ⁵ organisms/mL)
535A 240521 03	∅	62	<i>Borrelia miyamotoi</i> (~ 1x10 ⁵ organisms/mL)
535A 240521 04	+++	61	<i>Borrelia lusitaniae</i> (~ 5x10 ⁵ organisms/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

n = 102	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	99	102	29	95	n.d.	1	1	1	1
Negativ	3	0	72	7	nein <i>no</i>	101	101	101	101
Fraglich <i>Questionable</i>	0	0	1	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 = 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
EliGene Borrelia RT (n = 4)	4	100	4	100	4	100	4	100
GeneProof B. burgdorferi (n = 26)	26	100	26	100	26	100	5§	20
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 = 23)	23	100	23	100	23	100	23	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	1	50
In house PCR assay (n = 25)	24	96	25	100	20	80	22	88
Other commercial tests (n = 9)	7	78	9	100	7	78	4	44

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

Comments:

1. The following tests are listed under "Other commercial tests": Novaplex Tick-borne disease expanded assay (RUO) (2x), AmpliSens TBEV, B.burgdorferi sl, A.phagocytophilum, E.chaffeensis/ E.muris-FRT PCR kit (1x), Biologix bB Borrelia sensu lato (1x) and CerTest VIASURE (1x).