

PCR-/NAT *Borrelia burgdorferi* (RV 535) Mai 2025



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
535A 250520 01	+++	61	<i>Borrelia bissectiae</i> (~ 1x10 ⁶ organisms/mL)
535A 250520 02	++	61	<i>Borrelia spielmanii</i> (~ 1x10 ⁵ organisms/mL)
535A 250520 03	+	61	<i>Borrelia bissectiae</i> (~ 1x10 ⁴ organisms/mL)
535A 250520 04	++	61	<i>Borrelia bissectiae</i> (~ 1x10 ⁵ organisms/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n</i> = 106		Proben Nr. (Sample no.)				Inhibition				
Befund Result		01	02	03	04		01	02	03	04
Positiv	105	101	101	101	105	n.d.	2	2	2	2
Negativ	1	5	5	5	1	nein no	104	104	104	104
Fraglich Questionable	0	0	0	0	0	ja yes	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwenden 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 True positive results							
	01		02		03		04	
	Absolut Absolute	%	Absolut Absolute	%	Absolut Absolute	%	Absolut Absolute	%
AID RDB 2225 Zecken-Screening (n = 1)	1	100	1	100	1	100	1	100
CerTest VIASURE Tick Borne (n = 3)	3	100	3	100	3	100	3	100
EliGene Borrelia RT (n = 3)	3	100	3	100	3	100	3	100
GeneProof B. burgdorferi (n = 23)	23	100	22	96	23	100	23	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.burgdorferi (n = 5)	5	100	1	20	5	100	5	100

Mikrogen alphaCube Borrelia (n = 26)	26	100	26	100	26	100	26	100
Novaplex Tick-borne expanded (n = 1)	1	100	1	100	1	100	1	100
TIB Molbiol LightMix Borrelia (n = 3)	3	100	3	100	3	100	3	100
<i>In house</i> PCR assay (n = 29)	28	97	29	100	25	86	28	97
Other commercial tests (n = 8)	8	100	8	100	7	88	8	100

Comments:

1. The following tests are listed under "Other commercial tests": GeneProof Borrelia PCR Kit (3x), DNA-TECHNOLOGY B. burgdorferi Real Time PCR Kit (1x), Sacace Biotechnologies Borrelia burgdorferi Real-TM (1x), Biolegio bB Borrelia sensu lato (1x) and TIB Molbiol Tickborne (1x).