

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



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.
Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
535A 251014 01	+++	61	<i>Borrelia kurtenbachii</i> (~ 1x10 ⁶ organisms/mL)
535A 251014 02	+++	61	<i>Borrelia burgdorferi</i> s.s. (~ 1x10 ⁶ organisms/mL)
535A 251014 03	++	61	<i>Borrelia valaisiana</i> (~ 1x10 ⁵ organisms/mL)
535A 251014 04	Ø	62	<i>Leptospira interrogans</i> (~ 5x10 ⁵ organisms/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.
Absolute numbers of reported individual results.

<i>n</i> = 94		Proben Nr. (Sample no.)				Inhibition				
Befund Result		01	02	03	04		01	02	03	04
Positiv		94	94	92	1	n.d.	1	1	1	1
Negativ		0	0	2	92	nein no	93	93	93	93
Fraglich Questionable		0	0	0	1	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						NAT richtig negativ	
	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 = 1)	1	100	1	100	1	100	1	100
EliGene Borrelia RT (n = 1)	1	100	1	100	1	100	1	100
GeneProof B. burgdorferi (n = 25)	25	100	25	100	25	100	25	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 = 4)	4	100	4	100	4	100	3	75

Mikrogen alphaCube Borrelia (n = 22)	22	100	22	100	22	100	22	100
Novaplex Tick-borne expanded (n = 1)	1	100	1	100	0	0	1	100
TIB Molbiol LightMix Borrelia (n = 2)	2	100	2	100	2	100	2	100
<i>In house</i> PCR assay (n = 27)	27	100	27	100	27	100	26	96
Other commercial tests (n = 6)	6	100	6	100	5	83	6	100

Comments:

1. The following tests are listed under "Other commercial tests": AMPLICON AmpliTest B. burgdorferi (1x), CerTest VIASURE Borrelia, Anaplasma & Coxiella Real Time PCR Detection Kit (1x), Biolegio bB Borrelia sensu lato (1x), Novaplex Tick-borne disease expanded assay (1x), Progenie RealCycler BBUR (1x) and TIB Molbiol Tickborne (1x).