

PCR-/NAT *Borrelia burgdorferi* (RV 535) Mai 2026



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
535 260519 01	++	61	<i>Borrelia garinii</i> Ospa Typ3 (~ 1x10 ⁵ organisms/mL)
535 260519 02	+	61	<i>Borrelia garinii</i> Ospa Typ3 (~ 1x10 ⁴ organisms/mL)
535 260519 03	Ø	62	<i>Borrelia hispanica</i> (~ 1x10 ⁶ organisms/mL)
535 260519 04	+++	61	<i>Borrelia garinii</i> Ospa Typ3 (~ 5x10 ⁶ organisms/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n</i> = 103		Proben Nr. (Sample no.)				Inhibition				
Befund Result		01	02	03	04		01	02	03	04
Positiv		103	102	16	103	n.d.	1	1	1	1
Negativ		0	0	87	0	nein no	102	102	102	102
Fraglich Questionable		0	1	0	0	ja yes	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 True positive results						NAT richtig negativ	
	01		02		04		03	
	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 = 2)	2	100	2	100	2	100	0	0
EliGene Borrelia RT (n = 3)	3	100	3	100	3	100	3	100
GeneProof B. burgdorferi (n = 25)	25	100	25	100	25	100	23	92
Gerbion diarella Borrelia (n = 3)	3	100	3	100	3	100	3	100
Immundiagnostik MutaPLEX (n = 1)	1	100	0§	100	1	100	1	100
Ingenetix BactoReal B.burgdorferi (n = 4)	4	100	4	100	4	100	4	100
Mikrogen alphaCube Borrelia (n = 24)	24	100	24	100	24	100	24	100

Novaplex Tick-borne expanded (n = 2)	2	100	2	100	2	100	2	100
Sacace TBEV, B.burg, A.phagocytophilum, E.chaffeensis / E.muris Real-TM (n = 1)	1	100	1	100	1	100	1	100
TIB Molbiol LightMix Borrelia spp (n = 2)	2	100	2	100	2	100	0	0
TIB Molbiol Modular Borrelia (n = 1)	1	100	1	100	1	100	0	0
In house PCR assay (n = 26)	26	100	26	100	26	100	19	73
Other commercial tests (n = 8)	8	100	8	100	8	100	6	75

§ 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": GeneProof Borrelia PCR kit (3x), Sacace Biotechnologies Borrelia burgdorferi Real-TM (1x), Biolegio bB Borrelia sensu lato (1x), and TIB Molbiol Tickborne 1 (1x).