PCR-/NAT *Borrelia burgdorferi* (RV 535)   November 2013

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

	Erwartet / expected		**Probenzusammensetzung** / *Sample composition*
1325351	**(++)**	61	*Borrelia bissettii* (~1x10^4 organisms/mL)
1325352	**Ø**	62	*Escherichia coli* K12 (negative for *eae* and *hly*A)
1325353	**++**	61	*Borrelia spielmanii* (~1x10^4 organisms/mL)
1325354	**++**	61	*Borrelia afzelii* (~1x10^4 organisms/mL)

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

n = 96	**Probennummer** (Sample no.)					**Inhibition**			
Befund *Result*	1325351	1325352	1325353	1325354		1325351	1325352	1325353	1325354
Positiv	87	1	92	91	**n.d.**	1	1	1	1
Negativ	7[1]	95	4	5	**nein** *no*	95	95	95	95
Fraglich *Questionable*	2[1]	0	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** *True negative results*		
	Absolut *Absolute*	**Relativ** *Relative*	**%**	**Absolut** *Absolute*	**Relativ** *Relative*	**%**
artus Borrelia LC Kit [20] (n = 21)	60	60 / 63	95	20	20 / 21	95
Demeditec GenFlow [21] (n = 5)	15	15 / 15	100	5	5 / 5	100
LightMix Borrelia [22] (n = 4)	12	12 / 12	100	4	4 / 4	100
Other/commercial tests [27] (n = 13)	36	36 / 38 §	95	13	13 / 13	100
***In house* PCR assay [28] (n = 53)**	147	147/158§	93	53	53 / 53	100

§ Due to reporting questionable results, the number of true results (denominator in the „relative" column) has been reduced.

Comments: [1] As sample #1325351 contained a very rare *Borrelia* isolate (*B. bisetti*), negative PCR results were not rated as "false negative".