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

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

	***Erwartet** / expected*		**Probenzusammensetzung** / *Sample composition*
1315351	**+**	**61**	***Borrelia garinii OspA* Typ3 (~1x10^4 organisms/mL)**
1315352	**++**	**61**	***Borrelia garinii OspA* Typ3 (~1x10^5 organisms/mL)**
1315353	**+++**	**61**	***Borrelia garinii OspA* Typ3 (~1x10^6 organisms/mL)**
1315354	**(+)**	**61**	***Borrelia garinii OspA* Typ3 (~1x10^3 organisms/mL)**

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

n = 119	**Probennummer** (Sample no.)			
Befund *Result*	**1315351**	**1315352**	**1315353**	**1315354**
Positiv	**108**	**112**	**117**	**83**
Negativ	**10**	**6**	**2**	**33** [1)]
Fraglich *Questionable*	**1**	**1**	**0**	**3** [1)]

	Inhibition			
	1315351	**1315352**	**1315353**	**1315354**
n.d.	**2**	**2**	**2**	**2**
nein *no*	**117**	**117**	**117**	**117**
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)	**84**	84 / 84	**100**	**0**	0 / 0	**0**
Demeditec GenFlow [21] (n = 9)	**33**	33 / 36	**92**	**0**	0 / 0	**0**
LightMix Borrelia [22] (n = 4)	**12**	12 / 16	**75**	**0**	0 / 0	**0**
Other/commercial tests [27] (n = 27)	**95**	95 / 106 §	**90**	**0**	0 / 0	**0**
***In house* PCR assay [28] (n = 57)**	**192**	192 / 225 §	**85**	**0**	0 / 0	**0**
Andere/ k.A. / *other* **[29] (n = 1)**	**4**	4 / 4	**100**	**0**	0 / 0	**0**

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

Comments: [1)] As sample #1315374 contained a very low number of *B. garinii* target organisms, negative PCR results were not rated as “false negative”, but the participants may consider to improve the analytical sensitivity of their corresponding PCR assays.