PCR-/NAT EHEC / STEC (RV 534) Mai 2013

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

	***Erwartet /** expected*		**Probenzusammensetzung** / *Sample composition*
1315341	**Ø**	**62**	***Salmonella enterica serovar typhi* (~1x10^4 CFU/mL)**
1315342	**Ø**	**62**	***Escherichia coli* K12 (negative for *eae* and *hly*A)**
1315343	**++**	**61** / 72,73	**EHEC (~1x10^4 CFU/mL) (*stx*-2c and EAEC positive)**
1315344	**+++**	**61** / 71,72,77,78	**EHEC (~1x10^5 CFU/mL) (*stx*-1, *stx*-2, *eae*, *hly*A and O157 positive)**

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

n = 110	**Probennummer** (Sample no.)			
Befund *Result*	**1315341**	**1315342**	**1315343**	**1315344**
Positiv	**0**	**1**	**103**[1)]	**107**[1)]
Negativ	**110**	**109**	**5**	**3**
Fraglich *Questionable*	**0**	**0**	**2**	**0**

	Inhibition			
	1315341	**1315342**	**1315343**	**1315344**
n.d.	**3**	**3**	**3**	**3**
nein *no*	**107**	**107**	**107**	**107**
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*	**%**
Hain GenoType EHEC [20] (n = 27)	**51**	51 / 52 [§]	**98**	**54**	54 / 54	**100**
Hyplex EHEC [21] (n = 6)	**11**	11 / 12	**92**	**11**	11 / 12	**92**
r-Biopharm RIDAGENE [22] (n = 14)	**24**	24 / 28	**86**	**28**	28 / 28	**100**
Other commercial tests [27] (n = 9)	**17**	17 / 18	**94**	**18**	18 / 18	**100**
***In house* PCR assay [28] (n = 52)**	**104**	104 / 104	**100**	**104**	104 / 104	**100**
Andere/ k.A. / *other* **[29] (n = 2)**	**3**	3 / 4	**75**	**4**	4 / 4	**100**

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

Comments: [1)] Partial or complete shiga-toxin subtyping, *eae*-, and *hly*A-detection was performed by 99 laboratories.