

**PCR-/NAT EHEC / STEC
 (RV 534) Juni 2017**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1715341	+++	61 / 74	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-2d</i> positive)
1715342	++	61 / 71,72,77,78	EHEC (~1x10 ⁴ CFU/mL) (<i>stx-1, stx-2, eae, hlyA</i> and O157 positive)
1715343	∅	62	<i>Shigella sonnei</i> (~ 1x10 ⁵ CFU/mL)
1715344	∅	62	<i>Escherichia coli</i> K12

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

<i>n = 133</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	<i>1715341</i>	<i>1715342</i>	<i>1715343</i>	<i>1715344</i>		<i>1715341</i>	<i>1715342</i>	<i>1715343</i>	<i>1715344</i>
<i>Befund Result</i>									
Positiv	124 ¹⁾	125 ¹⁾	4	1	n.d.	1	1	1	1
Negativ	7	8	127	132	nein no	132	132	132	132
Fraglich Questionable	2	0	2	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 <i>True positive results</i>			NAT richtig negativ <i>True negative results</i>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
Hain GenoType EHEC [20] (n = 25)	49	49 / 50	98	50	50 / 50	100
Hyplex EHEC [21] (n = 1)	2	2 / 2	100	2	2 / 2	100
r-Biopharm RIDAGENE [22] (n = 42)	72	72 / 83 §	87	80	80 / 82 §	98
Other commercial tests [27] (n = 21)	42	42 / 42	100	41	41 / 42	98
<i>In house</i> PCR assay [28] (n = 46)	86	86 / 90 §	96	92	92 / 92	100
Anderer/ k.A. / other [29] (n = 2)	4	4 / 4	100	3	3 / 4	75

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

* Durch Mehrfachnennung oder fehlende Angabe kann die absolute Zahl der Ergebnisse (Tab. 2) von der Anzahl der Teilnehmer abweichen.
 Due to reporting results of multiple assay systems or missing specifications, the effective numbers are not correlating with the number of participants

Comments: ¹⁾ Partial or complete shiga toxin subtyping, *eae*-, and *hlyA*-detection was performed by 112 laboratories. With the exception of 2 laboratories, all reported results were correct.