

**PCR-/NAT EHEC / STEC
 (RV 534) November 2015**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1525341	∅	62	ETEC (~5x10 ⁵ CFU/mL) (ST und LT positive)
1525342	+++	61 / 72	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-2</i> positive)
1525343	+++	61 / 72,77,78	EHEC (~5x10 ⁴ CFU/mL) (<i>stx-2</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1525344	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i>)

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

<i>n = 124</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1525341	1525342	1525343	1525344	1525341	1525342	1525343	1525344	
Befund <i>Result</i>									
Positiv	2	118 ¹⁾	117 ¹⁾	3	n.d.	1	1	1	1
Negativ	122	6	7	121	nein <i>no</i>	123	123	123	123
Fraglich <i>Questionable</i>	0	0	0	0	ja <i>yes</i>	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwenden 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)	46	46 / 50	92	46	46 / 50	92
Hyplex EHEC [21] (n = 3)	6	6 / 6	100	6	6 / 6	100
r-Biopharm RIDAGENE [22] (n = 35)	67	67 / 70	96	70	70 / 70	100
Other commercial tests [27] (n = 13)	25	25 / 26	96	26	26 / 26	100
<i>In house</i> PCR assay [28] (n = 48)	92	92 / 96	96	96	96 / 96	100
<i>Anderer/ k.A. / other</i> [29] (n = 2)	3	3 / 4	75	3	3 / 4	75

* 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 104 laboratories. With the exception of 1 laboratory, all reported results were correct.