

**PCR-/NAT EHEC / STEC
 (RV 534) November 2013**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1325341	+++	61 / 71,77,78	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-1</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1325342	++	61 / 71,72,77,78	EHEC (~1x10 ⁴ CFU/mL) (<i>stx-1</i> , <i>stx-2</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1325343	+++	61 / 72,76,77	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-2f</i> and <i>eae</i> positive)
1325344	∅	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 = 104</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
<i>Befund Result</i>	1325341	1325342	1325343	1325344	1325341	1325342	1325343	1325344	
Positiv	101 ¹⁾	98 ¹⁾	25 ¹⁾	2	n.d.	1	1	1	1
Negativ	3	6	79 ²⁾	102	nein no	103	103	103	103
Fraglich Questionable	0	0	0	0	ja yes	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 = 24)	47	47 / 72	65	24	24 / 24	100
Hyplex EHEC [21] (n = 5)	10	10 / 15	67	5	5 / 5	100
r-Biopharm RIDAGENE [22] (n = 14)	36	36 / 42	86	13	13 / 14	93
Other commercial tests [27] (n = 9)	21	21 / 27	78	9	9 / 9	100
<i>In house</i> PCR assay [28] (n = 51)	110	110 / 153	72	50	50 / 51	98
Andere/ k.A. / other [29] (n = 3)	4	4 / 9	44	3	3 / 3	100

Comments: ¹⁾ Partial or complete shiga-toxin subtyping, *eae*-, and *hlyA*-detection was performed by 95 laboratories. With the exception of 5 laboratories, all reported results were correct.

²⁾ As the clinical relevance of shiga toxin 2f positive EHEC is not proven yet, negative PCR results were not rated as "false negative".