

**PCR-/NAT EHEC / STEC
 (RV 534) November 2012**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1225341	++	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)
1225342	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i>)
1225343	+++	61 / 71,78	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-1c</i> and <i>hlyA</i> positive)
1225344	+++	61 / 72	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-2e</i> positive)

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

<i>n = 100</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1225341	1225342	1225343	1225344	1225341	1225342	1225343	1225344	
Befund <i>Result</i>									
Positiv	100 ¹⁾	0	94 ¹⁾	85 ¹⁾	n.d.	3	3	3	3
Negativ	0	100	6	15	nein <i>no</i>	97	97	97	97
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 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>	%
GenoType EHEC (Hain) [20] (n = 21)	62	62 / 63	98	21	21 / 21	100
Hyplex EHEC [21] (n = 5)	15	15 / 15	100	5	5 / 5	100
RIDAGENE (r-Biopharm) [22] (n = 8)	23	23 / 24	96	8	8 / 8	100
Other commercial tests [27] (n = 12)	31	31 / 36	86	12	12 / 12	100
<i>In house</i> PCR assay [28] (n = 54)	150	150 / 162	93	54	54 / 54	100
<i>Anderer/ k.A. / other</i> [29] (n = 1)	1	1 / 3	33	1	1 / 1	100

Comments: ¹⁾ Partial or complete shiga-toxin subtyping, *eae*-, and *hlyA*-detection was performed by 88 laboratories.