

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



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1215341	+++	61 / 72	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-2</i> positive)
1215342	∅	62	EPEC (~1x10 ⁴ CFU/mL) (<i>eae</i> positive)
1215343	++	61 / 72	EHEC (~1x10 ⁴ CFU/mL) (<i>stx-2</i> positive)
1215344	∅	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 = 106</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1215341	1215342	1215343	1215344	1215341	1215342	1215343	1215344	
Befund <i>Result</i>									
Positiv	105 ¹⁾	2	104 ¹⁾	1	n.d.	1	1	1	1
Negativ	1	103	2	105	nein <i>no</i>	105	105	105	105
Fraglich <i>Questionable</i>	0	1	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>	%
GenoType EHEC (Hain) [20] (n = 28)	55	55 / 56	98	56	56 / 56	100
Hyplex EHEC [21] (n = 5)	10	10 / 10	100	10	10 / 10	100
Other commercial tests [27] (n = 17)	34	34 / 34	100	34	34 / 34	100
In house PCR assay [28] (n = 54)	106	106 / 108	98	104	104/107 [§]	97
Andere/ k.A. / other [29] (n = 3)	6	6 / 6	100	6	6 / 6	100

* Durch Mehrfachnennung oder fehlende Angabe kann die absolute Zahl der Ergebnisse (Tab. 2) von der Anzahl der Teilnehmer abweichen.

¹⁾ Due to reporting results of multiple assay systems or missing specifications, the effective numbers are not correlating with the number of participants.

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

Comments: ¹⁾ Partial or complete shiga-toxin subtyping, *eae*-, and *hlyA*-detection was performed by 103 laboratories.