

**PCR-/NAT EHEC / STEC
 (RV 534) November 2011**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1125341	++	61 / 71	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-1</i> positive)
1125342	+	61 / 71,72,77,78	EHEC (~1x10 ³ CFU/mL) (<i>stx-1, stx-2, eae, hlyA</i>)
1125343	∅	62	<i>Salmonella enteritidis</i> (~1x10 ⁴ CFU/mL)
1125344	∅	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 = 77</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1125341	1125342	1125343	1125344	1125341	1125342	1125343	1125344	
Befund <i>Result</i>									
Positiv	76 ¹⁾	73 ¹⁾	0	1	n.d.	2	2	2	2
Negativ	1	4	77	76	nein <i>no</i>	75	75	75	75
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 = 14)	28	28 / 28	100	28	28 / 28	100
Hyplex EHEC [21] (n = 5)	10	10 / 10	100	10	10 / 10	100
Other commercial tests [27] (n = 7)	14	14 / 14	100	14	14 / 14	100
In house PCR assay [28] (n = 51)	97	97 / 102	95	101	101 / 102	99
Andere/ k.A. / other [29] (n = 1)	2	2 / 2	100	2	2 / 2	100

* 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 71 laboratories. With the exception of two laboratories (who missed the *stx-1* gene in sample # 1125342), all reported results were correct.