

**PCR-/NAT EHEC / STEC
 (RV 534) November 2010**



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

Gruppe A	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1025341	+++	61 / 71,73,77,78	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-1, stx-2c, eae, hlyA</i>)
1025342	++	61 / 71,73,77,78	EHEC (~1x10 ⁴ CFU/mL) (<i>stx-1, stx-2c, eae, hlyA</i>)
1025343	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i>)
1025344	+	61 / 71,73,77,78	EHEC (~1x10 ³ CFU/mL) (<i>stx-1, stx-2c, eae, hlyA</i>)

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

<i>n = 69</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1025341	1025342	1025343	1025344	1025341	1025342	1025343	1025344	
Befund <i>Result</i>									
Positiv	68 ¹⁾	66 ¹⁾	1	55 ¹⁾	n.d.	2	2	2	2
Negativ	1	3	68	11 ²⁾	nein <i>no</i>	67	67	67	67
Fraglich <i>Questionable</i>	0	0	0	3	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 = 16)	42	42 / 48	88	16	16 / 16	100
Other commercial tests [27] (n = 5)	15	15 / 15	100	5	5 / 5	100
In house PCR assay [28] (n = 47)	130	130 / 139 [§]	94	46	46 / 47	98
Andere/ k.A. / other [29] (n = 1)	2	2 / 2 [§]	100	1	1 / 1	100

[§] 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 63 laboratories.
²⁾ Eleven of the 69 participants reported negative results for sample # 1025344. Due to the low number of target organisms we have not rated them as "false-negative", but the participants may consider to improve the analytical sensitivity of their corresponding PCR assays.