

**PCR-/NAT EHEC / STEC
 (RV 534) November 2018**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1825341	+++	61 / 71,77,78	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-1</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1825342	+++	61 / 71,72,77,78	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-1</i> , <i>stx-2</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1825343	Ø	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i>)
1825344	Ø	62	ETEC (~1x10 ⁴ CFU/mL) (ST und LT positive)

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

<i>n</i> = 134	Probennummer (Sample no.)				Inhibition				
Befund <i>Result</i>	1825341	1825342	1825343	1825344	1825341	1825342	1825343	1825344	
Positiv	133 ¹⁾	134 ¹⁾	0	0	n.d.	2	2	2	2
Negativ	1	0	134	133	nein <i>no</i>	132	132	132	131
Fraglich <i>Questionable</i>	0	0	0	1	ja <i>yes</i>	0	0	0	1

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>	%
Hain GenoType EHEC [20] (n = 21)	42	42 / 42	100	42	42 / 42	100
Hyplex EHEC [21] (n = 1)	2	2 / 2	100	2	2 / 2	100
r-Biopharm RIDAGENE [22] (n = 44)	87	87 / 88	99	88	88 / 88	100
Other commercial tests [27] (n = 27)	54	54 / 54	100	54	54 / 54	100
<i>In house</i> PCR assay [28] (n = 43)	86	86 / 86	100	85	85 / 85 [§]	100
Andere/ k.A. / other [29] (n = 4)	8	8 / 8	100	8	8 / 8	100

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

* 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 115 laboratories. With the exception of 1 laboratory, all reported results were correct.