

**PCR-/NAT EHEC / STEC
(RV 534) Mai 2016**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1615341	∅	62 / 77	EPEC (~5x10 ⁴ CFU/mL)
1615342	+++	61 / 71,72,77,78	EHEC (~5x10 ⁵ CFU/mL) (<i>stx-1, stx-2, eae, hlyA</i> and O157 positive)
1615343	∅	62	EIEC (~5x10 ⁴ CFU/mL)
1615344	+++	61 / 72,77,78	EHEC (~5x10 ⁴ CFU/mL) (<i>stx-2c, eae, hlyA</i> and O26:H11 positive)

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

<i>n</i> = 125	Probennummer (Sample no.)				Inhibition				
Befund <i>Result</i>	1615341	1615342	1615343	1615344	1615341	1615342	1615343	1615344	
Positiv	2	124 ¹⁾	2	124 ¹⁾	n.d.	2	2	2	2
Negativ	123	1	123	1	nein <i>no</i>	123	123	123	123
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>	%
Hain GenoType EHEC [20] (n = 28)	56	56 / 56	100	56	56 / 56	100
Hyplex EHEC [21] (n = 2)	4	4 / 4	100	4	4 / 4	100
r-Biopharm RIDAGENE [22] (n = 31)	60	60 / 62	97	61	61 / 62	98
Other commercial tests [27] (n = 21)	42	42 / 42	100	40	40 / 42	95
In house PCR assay [28] (n = 45)	90	90 / 90	100	89	89 / 90	99
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.
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 112 laboratories. With the exception of 1 laboratory, all reported results were correct.