

**PCR-/NAT EHEC / STEC
 (RV 534) November 2017**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1725341	++	61 / 71,72,77,78	EHEC (~5x10 ⁴ CFU/mL) (<i>stx-1</i> , <i>stx-2</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1725342	∅	62	<i>Escherichia coli</i> K12
1725343	++	61 / 62 / 76,77	EHEC (~5x10 ⁴ CFU/mL) (<i>stx-2f</i> and <i>eae</i> positive)
1725344	+	61 / 74	EHEC (~5x10 ³ CFU/mL) (<i>stx-2d</i> positive)

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

<i>n = 113</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1725341	1725342	1725343	1725344		1725341	1725342	1725343	1725344
<i>Befund Result</i>									
Positiv	113 ¹⁾	2	55 ¹⁾	88 ¹⁾	n.d.	1	1	1	1
Negativ	0	111	58	25 ²⁾	nein no	112	112	112	112
Fraglich Questionable	0	0	0	0	ja yes	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwendern verschiedener Methoden (ohne Probe # 1725343)
Absolute numbers and relative frequency of reported true positive and true negative results among various NAT methods (without sample # 1725343).

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 = 20)	40	40 / 40	100	20	20 / 20	100
r-Biopharm RIDAGENE [22] (n = 30)	46	46 / 60	77	28	28 / 30	93
Other commercial tests [27] (n = 25)	46	46 / 50	92	25	25 / 25	100
<i>In house</i> PCR assay [28] (n = 38)	70	70 / 76	92	38	38 / 38	100
Andere/ k.A. / other [29] (n = 4)	6	6 / 8	75	4	4 / 4	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 94 laboratories. With the exception of 3 laboratories, all reported results were correct.
²⁾ As sample #1725344 contained a low number of EHEC target organisms, negative PCR results were not rated "false negative" in this EQAS distribution.