

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



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1815341	∅	62 / 77	EPEC (~ 1x10 <sup>4</sup> CFU/mL)
1815342	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i> )
1815343	++++	61 / 71,72,77,78	EHEC (~1x10 <sup>6</sup> CFU/mL) ( <i>stx-1</i> , <i>stx-2</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1815344	+++	61 / 71,72,77,78	EHEC (~1x10 <sup>5</sup> CFU/mL) ( <i>stx-1</i> , <i>stx-2</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)

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

<i>n</i> = 140	Probennummer (Sample no.)				Inhibition				
Befund <i>Result</i>	1815341	1815342	1815343	1815344	1815341	1815342	1815343	1815344	
Positiv	1	0	140 <sup>1)</sup>	140 <sup>1)</sup>	n.d.	1	1	1	1
Negativ	139	140	0	0	nein <i>no</i>	139	139	139	139
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 = 22)	44	44 / 44	100	44	44 / 44	100
r-Biopharm RIDAGENE [22] (n = 41)	82	82 / 82	100	81	81 / 82	99
Other commercial tests [27] (n = 30)	60	60 / 60	100	60	60 / 60	100
<i>In house</i> PCR assay [28] (n = 50)	100	100 / 100	100	100	100 / 100	100
Andere/ k.A. / <i>other</i> [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:** <sup>1)</sup> Partial or complete shiga toxin subtyping, *eae*-, and *hlyA*-detection was performed by 120 laboratories. With the exception of 2 laboratories, all reported results were correct.