

**PCR-/NAT EHEC / STEC  
 (RV 534) Mai / Juni 2019**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1915341	++	61 / 71,72,77,78	EHEC (~1x10 <sup>4</sup> CFU/mL) ( <i>stx-1</i> , <i>stx-2</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1915342	∅	62 / 77	EPEC (~ 1x10 <sup>4</sup> CFU/mL)
1915343	+++	61 / 72,77,78	EHEC (~1x10 <sup>5</sup> CFU/mL) ( <i>stx-2c</i> , <i>eae</i> , <i>hlyA</i> and O26:H11 positive)
1915344	∅	62	EIEC (~ 1x10 <sup>4</sup> CFU/mL)

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

<i>n</i> = 139	Probennummer (Sample no.)				Inhibition				
Befund <i>Result</i>	1915341	1915342	1915343	1915344	1915341	1915342	1915343	1915344	
Positiv	139	3	137 <sup>1)</sup>	1	n.d.	2	2	2	2
Negativ	0	136	2	138	nein <i>no</i>	137	137	137	137
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 = 21)	42	42 / 42	100	42	42 / 42	100
r-Biopharm RIDAGENE [22] (n = 41)	81	81 / 82	99	81	81 / 82	99
Other commercial tests [27] (n = 35)	70	70 / 70	100	70	70 / 70	100
In house PCR assay [28] (n = 47)	93	93 / 94	99	91	91 / 94	97
Andere/ k.A. / other [29] (n = 4)	8	8 / 8	100	2	2 / 4	50

\* 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 122 laboratories. With the exception of 3 laboratories, all reported results were correct.