

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



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1925341	∅	62	<i>S. enterica ser. enteritidis</i>
1925342	+++	61 / 71,72,77,78	EHEC (~1x10 <sup>9</sup> CFU/mL) ( <i>stx-1, stx-2, eae, hlyA</i> and O157 positive)
1925343	++	61 / 71,77,78	EHEC (~1x10 <sup>4</sup> CFU/mL) ( <i>stx-1a, eae, hlyA</i> and O103 positive)
1925344	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i> )

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

<i>n = 133</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1925341	1925342	1925343	1925344	1925341	1925342	1925343	1925344	
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	1	133 <sup>1)</sup>	132 <sup>1)</sup>	0	n.d.	1	1	1	1
<b>Negativ</b>	132	0	1	133	nein <i>no</i>	132	132	132	132
<b>Fraglich</b> <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.*

<b>NAT-Methode</b> [Code] (total number *)	<b>NAT richtig positiv</b> <i>True positive results</i>				<b>NAT richtig negativ</b> <i>True negative results</i>			
	1925342		1925343		1925341		1925344	
	<i>Absolut</i> <i>Absolute</i>	%	<i>Absolut</i> <i>Absolute</i>	%	<i>Absolut</i> <i>Absolute</i>	%	<i>Absolut</i> <i>Absolute</i>	%
Hain GenoType EHEC [20] (n = 20)	20	100	20	100	20	100	20	100
r-Biopharm RIDAGENE [22] (n = 40)	40	100	39	98	40	100	40	100
Other commercial tests [27] (n =31)	31	100	31	100	31	100	31	100
<i>In house</i> PCR assay [28] (n = 42)	42	100	42	100	41	98	42	100

**Comments:** <sup>1)</sup> Partial or complete shiga toxin subtyping, *eae*-, and *hlyA*-detection was performed by 113 laboratories. With the exception of 2 laboratories, all reported results were correct.