

## PCR-/NAT EHEC / STEC (RV 534) Mai 2020



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2015341	++	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)
2015342	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i> )
2015343	++	61 / 76,77	EHEC (~5x10 <sup>4</sup> CFU/mL) ( <i>stx-2f</i> and <i>eae</i> positive)
2015344	++	61 / 71	EHEC (~1x10 <sup>5</sup> CFU/mL) ( <i>stx-1</i> positive)

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

<i>n = 132</i>	Probennummer (Sample no.)				Inhibition				
	2015341	2015342	2015343	2015344	2015341	2015342	2015343	2015344	
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	130 <sup>1)</sup>	2	79 <sup>1)</sup>	131 <sup>1)</sup>	n.d.	0	0	0	0
<b>Negativ</b>	2	130	53	1	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 Anwenden verschiedener Methoden.**  
*Absolute numbers and relative frequency of true positive and true negative results.*

NAT-Methode [Code] (total number *)	NAT richtig positiv <i>True positive results</i>						NAT richtig negativ	
	2015341		2015343		2015344		2015342	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
BD MAX Enteric Bacterial Panel (n = 4)	4	100	0	0	4	100	4	100
HAIN GenoType EHEC (n = 21)	20	95	6	29	21	100	20	95
Seegene Allplex Gast. Bacteria II (n = 5)	5	100	0	0	5	100	5	100
LightMix Modular <i>stx-1/stx-2/eae</i> (n = 6)	5	83	6	100	6	100	5	83
RIDAGENE (n = 40)	40	100	40	100	40	100	40	100
Other commercial tests (n = 16)	16	100	6	38	16	100	16	100
<i>In house</i> PCR assay (n = 40)	40	100	21	53	39	98	40	100

**Comments:** <sup>1)</sup> Partial or complete shiga toxin subtyping, *eae*-, and *hlyA*-detection was performed by 115 laboratories. All reported results were correct.