

**PCR-/NAT EHEC / STEC
 (RV 534) Nov 2020**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2025341	∅	62	Shigella sonnei (~1x10 ⁴ CFU/mL)
2025342	+++	61 / 71,72,77,78	EHEC (~5x10 ⁴ CFU/mL) (<i>stx-1, stx-2, eae, hlyA</i> and O157 positive)
2025343	++	61 / 71,72,77,78	EHEC (~1x10 ⁴ CFU/mL) (<i>stx-1, stx-2, eae, hlyA</i> and O157 positive)
2025344	∅	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 = 127</i>	Probennummer (Sample no.)					Inhibition			
	2025341	2025342	2025343	2025344		2025341	2025342	2025343	2025344
Befund <i>Result</i>									
Positiv	7	126 ¹⁾	125 ¹⁾	2	n.d.	1	1	1	1
Negativ	119	1	2	125	nein <i>no</i>	126	126	126	126
Fraglich <i>Questionable</i>	1	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 true positive and true negative results.

NAT-Methode [Code] (total number *)	NAT richtig positiv <i>True positive results</i>				NAT richtig negativ <i>True negative results</i>			
	2025342		2025343		2025341		2025344	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Amplex eazyplex EHEC complete (n = 5)	5	100	5	100	5	100	5	100
HAIN GenoType EHEC (n = 17)	17	100	17	100	15	88	17	100
Seegene Allplex Gast. Bacteria II (n = 6)	6	100	6	100	6	100	6	100
LightMix Modular <i>stx-1/stx-2/eae</i> (n = 6)	5	83	5	83	5	83	6	100
RIDAGENE (n = 43)	43	100	42	98	40	93	43	100
Other commercial tests (n = 15)	15	100	15	100	15	100	14	93
<i>In house</i> PCR assay (n = 35)	35	100	35	100	33	94	34	97

Comments: ¹⁾ Partial or complete shiga toxin subtyping, *eae*-, and *hlyA*-detection was performed by 108 laboratories. With the exception of 2 laboratories, all reported results were correct.