

**PCR-/NAT EHEC / STEC
 (RV 534) November 2016**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1625341	+++	61 / 73,77,78	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-2c</i> , <i>eae</i> , <i>hlyA</i> and O26:H11 positive)
1625342	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i>)
1625343	+++	61 / 71,72,77,78	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-1</i> , <i>stx-2</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1625344	∅	62	<i>S. enterica</i> ser. enteritidis (~ 1x10 ⁴ CFU/mL)

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

<i>n</i> = 123	Probennummer (Sample no.)				Inhibition				
Befund <i>Result</i>	1625341	1625342	1625343	1625344	1625341	1625342	1625343	1625344	
Positiv	122 ¹⁾	1	121 ¹⁾	1	n.d.	3	3	3	3
Negativ	1	122	1	122	nein <i>no</i>	120	120	120	120
Fraglich <i>Questionable</i>	0	0	1	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 = 25)	49	49 / 50	98	49	49 / 50	98
Hyplex EHEC [21] (n = 2)	4	4 / 4	100	4	4 / 4	100
r-Biopharm RIDAGENE [22] (n = 34)	66	66 / 67 [§]	99	68	68 / 68	100
Other commercial tests [27] (n = 17)	34	34 / 34	100	34	34 / 34	100
In house PCR assay [28] (n = 49)	98	98 / 98	100	97	97 / 98	99
Andere/ k.A. / other [29] (n = 2)	4	4 / 4	100	4	4 / 4	100

[§] Due to reporting questionable results, the number of true results (denominator in the „relative“ column) has been reduced.

* 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: ¹⁾ Partial or complete shiga toxin subtyping, *eae*-, and *hlyA*-detection was performed by 106 laboratories. With the exception of 1 laboratory, all reported results were correct.