

**PCR-/NAT EHEC / STEC
 (RV 534) Mai 2015**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1515341	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i>)
1515342	++	61 / 71,72,77,78	EHEC (~1x10 ⁴ CFU/mL) (<i>stx-1</i> , <i>stx-2</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1515343	+++	61 / 73,77,78	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-2c</i> , <i>eae</i> , <i>hlyA</i> and O157 positive)
1515344	∅	62	EPEC (~1x10 ⁵ CFU/mL) (ST positive)

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

<i>n</i> = 130	Probennummer (Sample no.)				Inhibition				
Befund <i>Result</i>	1515341	1515342	1515343	1515344	1515341	1515342	1515343	1515344	
Positiv	0	128 ¹⁾	129 ¹⁾	1	n.d.	2	2	2	2
Negativ	130	1	1	129	nein <i>no</i>	128	128	128	128
Fraglich <i>Questionable</i>	0	1	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 = 29)	58	58 / 58	100	58	58 / 58	100
Hyplex EHEC [21] (n = 5)	10	10 / 10	100	9	9 / 10	90
r-Biopharm RIDAGENE [22] (n = 31)	62	62 / 62	100	62	62 / 62	100
Other commercial tests [27] (n = 13)	26	26 / 26	100	26	26 / 26	100
<i>In house</i> PCR assay [28] (n = 51)	99	99 / 101 [§]	98	102	102 / 102	100
Andere/ k.A. / other [29] (n = 4)	8	8 / 8	100	8	8 / 8	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 112 laboratories. With the exception of 2 laboratories, all reported results were correct.