

**PCR-/NAT EHEC / STEC
(RV 534) Mai 2014**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1415341	∅	62	<i>Salmonella enterica</i> ser. Typhi (~ 1x10 ⁵ CFU/mL)
1415342	+++	61 / 71,77	EHEC (~1x10 ⁵ CFU/mL) (<i>stx-1</i> and <i>eae</i> positive – serotype O132H2)
1415343	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i>)
1415344	+++	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)

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

<i>n</i> = 133	Probennummer (Sample no.)				Inhibition				
Befund <i>Result</i>	1415341	1415342	1415343	1415344	1415341	1415342	1415343	1415344	
Positiv	0	130 ¹⁾	1	132 ¹⁾	n.d.	1	1	1	1
Negativ	133	2	132	1	nein <i>no</i>	132	132	132	132
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 = 30)	59	59 / 59 §	100	60	60 / 60	100
Hyplex EHEC [21] (n = 7)	14	14 / 14	100	14	14 / 14	100
r-Biopharm RIDAGENE [22] (n = 23)	45	45 / 46	98	46	46 / 46	100
Other commercial tests [27] (n = 15)	28	28 / 30	93	30	30 / 30	100
In house PCR assay [28] (n = 57)	114	114 / 114	100	113	113 / 114	99
Andere/ k.A. / other [29] (n = 3)	6	6 / 6	100	6	6 / 6	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.