

**PCR-/NAT EHEC / STEC  
 (RV 534) April 2011**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1115341	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i> )
1115342	∅	62	<i>Yersinia spp.</i>
1115343	∅	62 / 77	EPEC ( <i>eae</i> weak positive)
1115344	+++	61 / 71, 77, 78	EHEC (~1x10 <sup>5</sup> CFU/mL) ( <i>stx-1</i> , <i>eae</i> , <i>hlyA</i> )

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

<i>n = 80</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
<i>Befund Result</i>	1115341	1115342	1115343	1115344	1115341	1115342	1115343	1115344	
<b>Positiv</b>	1	0	10	80 <sup>1)</sup>	n.d.	2	2	2	2
<b>Negativ</b>	79	80	69	0	nein no	78	78	78	78
<b>Fraglich Questionable</b>	0	0	1	0	ja yes	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.*

<b>NAT-Methode</b> [Code] (total number *)	<b>NAT richtig positiv</b> <i>True positive results</i>			<b>NAT richtig negativ</b> <i>True negative results</i>		
	<b>Absolut</b> <i>Absolute</i>	<b>Relativ</b> <i>Relative</i>	<b>%</b>	<b>Absolut</b> <i>Absolute</i>	<b>Relativ</b> <i>Relative</i>	<b>%</b>
<b>GenoType EHEC (Hain) [20] (n = 17)</b>	<b>17</b>	17 / 17	<b>100</b>	<b>47</b>	47 / 51	<b>92</b>
<b>Hyplex EHEC [21] (n = 5)</b>	<b>5</b>	5 / 5	<b>100</b>	<b>11</b>	11 / 15	<b>73</b>
<b>Other commercial tests [27] (n = 1)</b>	<b>1</b>	1 / 1	<b>100</b>	<b>3</b>	3 / 3	<b>100</b>
<b>In house PCR assay [28] (n = 56)</b>	<b>56</b>	56 / 56	<b>100</b>	<b>164</b>	164/167 <sup>§</sup>	<b>98</b>
<b>Andere/ k.A. / other [29] (n = 1)</b>	<b>1</b>	1 / 1	<b>100</b>	<b>3</b>	3 / 3	<b>100</b>

<sup>§</sup> Due to reporting questionable results, the number of true results (denominator in the "relative" column) have been reduced.

**Comments:** <sup>1)</sup> Partial or complete shiga-toxin subtyping, *eae*-, and *hlyA*-detection was performed by 71 laboratories.