

**PCR-/NAT EHEC / STEC
 (RV 534) November 2023**



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

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
534 231024 01	∅	62	<i>Escherichia coli</i> K12 (negative for eae and hlyA)
534 231024 02	++	61 / 71,72,78	EHEC (~1x10 ⁵ CFU/mL) (stx-1a, stx-2a and hlyA positive)
534 231024 03	+++	61 / 72,77	EHEC (~5x10 ⁶ CFU/mL) (stx-2f and eae positive)
534 231024 04	+++	61 / 71,78	EHEC (~1x10 ⁶ CFU/mL) (stx-1c and hlyA positive, O145 positive)

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

n = 140	Proben Nr. (Sample no.)				Inhibition				
	01	02	03	04	01	02	03	04	
Befund <i>Result</i>									
Positiv	0	132	95	137	n.d.	0	0	0	0
Negativ	140	8	45	3	nein <i>no</i>	140	140	140	140
Fraglich <i>Questionable</i>	0	0	0	0	ja <i>yes</i>	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwenden 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	
	02		03		04		01	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Amplex eazyplex EHEC complete (n = 6)	6	100	6	100	6	100	6	100
BD MAX Enteric Bacterial Panel (n = 8)	8	100	0	0	8	100	8	100
BioMerieux BioFire GI Panel (n = 3)	3	100	1	33	3	100	3	100
Bruker-HAIN GenoType EHEC (n = 12)	11	92	2	17	12	100	12	100
ampliCube Gastroint. Bact. Panel 2 (n = 2)	2	100	0	0	2	100	2	100
Seegene Allplex GI-EB Screening (n = 6)	6	100	6	100	6	100	6	100
Seegene Allplex Gast. Bacteria II (n = 15)	12	80	5	33	14	93	15	100
LightMix Modular stx-1/stx-2/eae (n = 8)	8	100	8	100	8	100	8	100
RIDAGENE E.coli Stool Panel I (n = 15)	13	87	15	100	15	100	15	100

RIDAGENE EHEC/EPEC (n = 27)	26	96	27	100	27	100	27	100
<i>In house</i> PCR assay (n = 29)	28	97	20	69	28	97	29	100
Other commercial tests (n = 9)	9	100	5	56	8	89	9	100

Comments:

1. The following tests are listed under "Other commercial tests": Amplex Variplex EHEC (1x), MOBIDIAG Amplidiag Bacterial GE Kit (1x), AmpliGnost EHEC (Differenzierung) PCR Kit (1x), Qiagen QiaStat-Dx Gastrointestinal Panel 2 (1x), Viasure E.Coli Genotyp (1x), Genetic Signatures EasyScreen kit (1x), Luminex Gastrointestinal Pathogen Panel (1x) and r-Biopharm RIDA UNITY EHEC/EPEC (1x).