

**PCR-/NAT EHEC / STEC
 (RV 534) November 2024**



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

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
534A 241015 01	++	61 / 72	EHEC (~5x10 ⁴ CFU/mL) (stx-2d positive)
534A 241015 02	∅	62	<i>Escherichia coli</i> K12 (negative for <i>eae</i> and <i>hlyA</i>)
534A 241015 03	∅	62	ETEC (~1x10 ⁵ CFU/mL) (ST positive)
534A 241015 04	+++	61 / 71,72,77,78	EHEC (~5x10 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.

n = 140	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	119	0	6	140	n.d.	2	2	2	2
Negativ	21	140	134	0	nein <i>no</i>	138	138	138	138
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 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>			
	01		04		02		03	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Amplex eazyplex EHEC basic (n= 1)	1	100	1	100	1	100	1	100
Amplex eazyplex EHEC complete (n= 7)	7	100	7	100	7	100	7	100
BD MAX Enteric Bacterial Panel (n= 10)	10	100	10	100	10	100	9	90
BioMerieux BioFire GI Panel (n= 4)	4	100	4	100	4	100	3	75
Bruker-HAIN GenoType EHEC (n= 7)	5	71	7	100	7	100	7	100
ampliCube Gastroint. Bact. Panel 2 (n= 2)	2	100	2	100	2	100	2	100
Seegene Allplex GI-EB Screening (n= 10)	9	90	10	100	10	100	10	100
Seegene Allplex GI-Bacteria II (n= 20)	5	25	20	100	20	100	16	80

LightMix Modular stx-1/stx-2/eae (n= 6)	5	83	6	100	6	100	6	100
RIDAGENE E.coli Stool Panel I (n= 15)	15	100	15	100	15	100	15	100
RIDAGENE EHEC/EPEC (n= 19)	19	100	19	100	19	100	19	100
<i>In house</i> PCR assay (n= 25)	23	92	25	100	25	100	25	100
Other commercial tests (n= 14)	14	100	14	100	14	100	14	100

The following tests are listed under "Other commercial tests": r-Biopharm RIDA UNITY EHEC/EPEC (3x), Qiagen QiaStat-Dx Gastrointestinal Panel 2 (2x), Roche UC-TIB-EHEC/C.diff (2x), AmpliGnost EHEC (Differenzierung) PCR (1x), Bruker-Hain Fluorotype (1x), Bruker-Hain LiquidArray Gastrointestinal Panel (1x), CerTest VIASURE E. coli EHEC, EPEC & EIEC Real Time PCR Detection Kit (1x), Luminex Gastrointestinal Pathogen Panel (1x), MOBIDIAG Amplidiag Bacterial GE kit (1x) and OptiGene Isothermal Master Mix (1x).