PCR-/NAT EHEC / STEC
(RV 534) Mai 2026

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

Proben Nr.	Erwartet / *expected*		Probenzusammensetzung / *Sample composition*
534 260519 01	Ø	62	***Escherichia coli* K12 (negative for *eae* and *hlyA*)**
534 260519 02	++	61 / 71,72,77,78	**EHEC (~1x10^5 CFU/mL) (*stx*-1a, *stx*-2c, *eae*, *hly*A and O157 positive)**
534 260519 03	+++	61 / 71,72,77,78	**EHEC (~1x10^6 CFU/mL) (*stx*-1a, *stx*-2c, *eae*, *hly*A and O157 positive)**
534 260519 04	++	61 / 72,77	**EHEC (~1x10^5 CFU/mL) (*stx*-2f, *eae* positive)**

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

n = 108	Proben Nr. *(Sample no.)*			
Befund *Result*	**01**	**02**	**03**	**04**
Positiv	**0**	**108**	**108**	**79**
Negativ	**108**	**0**	**0**	**29**
Fraglich *Questionable*	**0**	**0**	**0**	**0**

	Inhibition			
	01	**02**	**03**	**04**
n.d.	**1**	**1**	**1**	**1**
nein *no*	**107**	**107**	**107**	**107**
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.

NAT-Methode [Code] (total number *)	NAT richtig positiv *True positive results*						NAT richtig negativ	
	02		03		04		01	
	Absolut *Absolute*	%	Absolut *Absolute*	%	Absolut *Absolute*	%	Absolut *Absolute*	%
Altona RealStar EHEC (n = 2)	2	100	2	100	1	50	2	100
Amplex eazyplex EHEC basic (n = 2)	2	100	2	100	0	0	2	100
Amplex eazyplex EHEC complete (n = 9)	9	100	9	100	5	56	9	100
BD MAX Enteric Bacterial Panel (n = 5)	5	100	5	100	0	0	5	100
BioFire FILMARRAY GI Panel (n = 4)	4	100	4	100	0	0	4	100
Bruker-HAIN GenoType EHEC (n = 2)	2	100	2	100	2	100	2	100
QiaStat-Dx Gastrointestinal Panel 2 (n = 1)	1	100	1	100	1	100	1	100

Roche UC-TIB-EHEC/C.diff (n = 6)	**6**	**100**	**6**	**100**	**6**	**100**	**6**	**100**
Seegene Allplex GI Bacteria II (n = 13)	**13**	**100**	**13**	**100**	**7**	**54**	**13**	**100**
Seegene Allplex GI-EB Screening (n = 3)	**3**	**100**	**3**	**100**	**3**	**100**	**3**	**100**
TIB Molbiol Modular stx-1/stx-2/eae (n = 4)	**4**	**100**	**4**	**100**	**4**	**100**	**4**	**100**
RIDAGENE or RIDAUNITY E.coli Stool Panel I (n = 15)	**15**	**100**	**15**	**100**	**14**	**93**	**15**	**100**
RIDAGENE or RIDAUNITY EHEC/EPEC (n = 14)	**14**	**100**	**14**	**100**	**14**	**100**	**14**	**100**
***In house* PCR assay (n = 20)**	**20**	**100**	**20**	**100**	**16**	**80**	**20**	**100**
Other commercial tests (n = 8)	**8**	**100**	**8**	**100**	**6**	**75**	**8**	**100**

Comments:

1. The following tests are listed under "Other commercial tests": Altona diagnostic FlexStar E.coli Pathotype 1 PCR Detection Mix (2x), AmpliGnost EHEC (Differenzierung) PCR (1x), AmpliGnost GastroBAK 2 (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) and r-Biopharm RIDAPlex Faecal Pathogens M 16 well (1x).
2. Partial or complete shiga toxin subtyping, eae-, and hlyA-detection was performed by 90 laboratories. With the exception of 2 laboratories, all reported results were correct