

**PCR-/NAT *Salmonella enterica*
 (RV 537) November 2024**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
537A 241015 01	∅	62	ETEC (~2x10 ⁵ CFU/mL) (ST positive)
537A 241015 02	++	61	<i>Salmonella enterica</i> ser. typhimurium (~ 5x10 ⁴ CFU/mL)
537A 241015 03	∅	62	<i>Escherichia coli</i> K12
537A 241015 04	+++	61	<i>Salmonella enterica</i> ser. typhi (~ 5x10 ⁵ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n</i> = 45	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	0	41	1	43	n.d.	0	0	0	0
Negativ	44	3	43	1	nein <i>no</i>	44	44	44	44
Fraglich <i>Questionable</i>	1	1	1	1	ja <i>yes</i>	1	1	1	1

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 <i>True negative results</i>			
	02		04		01		03	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Amplex eazyplex TyphiTyper (n= 1)	1	100	1	100	1	100	1	100
BD MAX Enteric Bacterial Panel (n= 10)	10	100	10	100	10	100	10	100
foodproof Salmonella Detection Kit (n= 1)	1	100	1	100	1	100	1	100
Seegene Allplex GI-Bacteria I (n= 8)	6	75	7	88	8	100	7	88
Seegene Allplex GI-EB Screening (n= 10)	9	90	10	100	10	100	10	100
RIDAGENE Bacterial Stool Panel (n= 6)	6	100	6	100	6	100	6	100
<i>In house</i> PCR assay (n= 4)	3*	100	3*	100	3*	100	3*	100
Other commercial tests (n= 5)	5	100	5	100	5	100	5	100

The following tests are listed under "Other commercial tests": BioMerieux BioFire FILMARRAY GI Panel (1x), CerTest VIASURE Gastrointestinal Panel II Real Time PCR Detection Kit (1x), MIKROGEN ampliCube gastrointestinal Bacterial Panel 1 (1x), QIAGEN QIAstat-Dx Gastrointestinal Panel 2 (1x) and Roche UC-TIB-Gastro-BAC (Salm./Yers./Camp./Shig.) (1x).

* Inhibition: *Due to reporting questionable results, the number of true results has been reduced.*