

PCR-/NAT *Salmonella enterica*
(RV 537) November 2023



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
537 231024 01	+	61	<i>S. enterica</i> ser. enteritidis (~ 5x10 ³ CFU/mL)
537 231024 02	++	61	<i>S. enterica</i> ser. enteritidis (~ 5x10 ⁴ CFU/mL)
537 231024 03	∅	62	<i>Escherichia coli</i> K12
537 231024 04	+++	61	<i>S. enterica</i> ser. enteritidis (~ 5x10 ⁵ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n</i> = 44	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	20	34	0	44	n.d.	0	0	0	0
Negativ	24	10	44	0	nein <i>no</i>	44	44	44	44
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	
	01		02		04		03	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Amplex eazyplex TyphiTyper (n = 3)	1	33	2	67	3	100	3	100
BD MAX Enteric Bacterial Panel (n = 6)	5	83	6	100	6	100	6	100
Seegene Allplex GI-Bacteria (I) (n = 10)	2	20	7	70	10	100	10	100
Seegene Allplex GI-EB Screening (n = 8)	2	25	5	63	8	100	8	100
Tib Molbiol LightMix Salmonella (n = 1)	1	100	1	100	1	100	1	100
RIDAGENE Bacterial Stool Panel (n = 6)	2	33	3	50	6	100	6	100
<i>In house</i> PCR assay (n = 4)	3	75	4	100	4	100	4	100
Other commercial tests (n = 6)	4	67	6	100	6	100	6	100

Comments:

1. The following tests are listed under "Other commercial tests": Genetic Signatures EasyScreen Pan Enteric Pathogen Detection Kits (PE001) (2x), AusDiagnosticsFaecal Pathogen M 16-well (1x), MIKROGEN ampliCube gastrointestinal Bacterial Panel 1 (1x), Qiagen QiaStat-Dx Gastrointestinal Panel 2 (1x) and BioMerieux BioFire GI Panel (1x).
2. As sample # 537 231024 04 contained a low number of *Salmonella enterica* target organisms, negative PCR results were not scored.