

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



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

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
537 230523 01	++	61	<i>S. enterica</i> ser. typhimurium (~ 1x10 ⁵ CFU/mL)
537 230523 02	++	61	<i>S. enterica</i> ser. enteritidis (~ 5x10 ⁴ CFU/mL)
537 230523 03	++	61	<i>S. enterica</i> ser. grumpensis (~ 1x10 ⁵ CFU/mL)
537 230523 04	∅	62	<i>Escherichia coli</i> K12

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

<i>n</i> = 46	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	44	43	42	0	n.d.	0	0	0	0
Negativ	1	3	4	46	nein <i>no</i>	45	46	46	46
Fraglich <i>Questionable</i>	1	0	0	0	ja <i>yes</i>	1	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		03		04	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Amplex eazyplex TyphiTyper (n = 3)	3	100	3	100	3	100	3	100
BD MAX Enteric Bacterial Panel (n = 5)	5	100	5	100	5	100	5	100
Seegene Allplex GI-Bacteria (I) (n = 8)	7	88	7	88	6	75	8	100
Seegene Allplex GI-EB Screening (n = 8)	8	100	7	88	7	87	8	100
RIDAGENE Bacterial Stool Panel (n = 5)	5	100	5	100	5	100	5	100
<i>In house</i> PCR assay (n = 5)	5	100	5	100	5	100	5	100
Other commercial tests (n = 12)	11*	100	11	92	11	92	12	100

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

Comments:

- The following tests are listed under "Other commercial tests": FILMARRAY Gastrointestinal (GI) Panel (2x), Genetic Signatures EasyScreen Pan Enteric Pathogen Detection Kits (PE001) (2x),

CONGEN SureFast Salmonella PLUS (1x), AusDiagnostics Faecal Pathogen M 16-well (1x), BactoReal® Kit Salmonella enterica (1x), MIKROGEN ampliCube gastrointestinal Bacterial Panel 1 (1x), Qiagen QiaStat-Dx Gastrointestinal Panel 2 (1x), CerTest VIASURE Salmonella, Campylobacter & Y. enterocolitica Real Time PCR Detection Kit (1x), BioMerieux BioFire GI Panel (1x) and r-Biopharm RIDA UNITY Bacterial Stool Panel (1x).