

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



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

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
537A 240521 01	+++	61	<i>S. enterica</i> ser. typhi (~ 5x10 ⁵ CFU/mL)
537A 240521 02	++	61	<i>S. enterica</i> ser. typhi (~ 5x10 ⁴ CFU/mL)
537A 240521 03	∅	62	<i>Escherichia coli</i> K12
537A 240521 04	+	61	<i>S. enterica</i> ser. typhi (~ 5x10 ³ CFU/mL)

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

n = 58	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	58	57	0	41	n.d.	0	0	0	0
Negativ	0	1	58	17	nein <i>no</i>	58	58	58	58
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	
	01		02		04		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	9	90	10	100
EasyScreen Pan-Enteric Pathogen (n=1)	1	100	1	100	1	100	1	100
Seegene Allplex GI-Bacteria (I) (n=8)	8	100	8	100	5	63	8	100
Seegene Allplex GI-EB Screening (n=15)	15	100	15	100	5	33	15	100
LightMix Salmonella (n=1)	1	100	1	100	1	100	1	100
RIDAGENE Bacterial Stool Panel (n=6)	6	100	6	100	6	100	6	100
<i>In house</i> PCR assay (n=5)	5	100	4	80	4	80	5	100
Other commercial tests (n=11)	11	100	11	100	9	82	11	100

Comments:

1. The following tests are listed under "Other commercial tests": BioMerieux BioFire FILMARRAY GI Panel (2x), AusDiagnostics Faecal Pathogen M 16-well (1x), Bakterielle Gastroenteritis Panel I – qPCR (PIIM) (1x), CerTest VIASURE Salmonella, Campylobacter and Y.enterocolitica Real Time PCR Detection Kit (1x), CerTest VIASURE Gastrointestinal Panel II Real Time PCR Detection Kit (1x), CONGEN SureFast Salmonella PLUS (1x), MIKROGEN ampliCube gastrointestinal Bacterial Panel 1 (1x) and QIAGEN QIAstat-Dx Gastrointestinal Panel 2 (1x).