

**PCR-/NAT *Salmonella enterica*
 (RV 537) Mai / Juni 2018**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1815371	+++	61	<i>S. enterica</i> ser. typhi (~ 5x10 ⁴ CFU/mL)
1815372	∅	62	<i>Escherichia coli</i> K12
1815373	+	61	<i>S. enterica</i> ser. typhi (~ 5x10 ² CFU/mL)
1815374	++	61	<i>S. enterica</i> ser. typhi (~ 5x10 ³ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 30</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
<i>Befund Result</i>	1815371	1815372	1815373	1815374	1815371	1815372	1815373	1815374	
Positiv	30	0	17 ¹⁾	25	n.d.	0	0	0	0
Negativ	0	30	12 ¹⁾	4	nein no	30	30	30	30
Fraglich Questionable	0	0	1 ¹⁾	1	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 <i>True positive results</i>			NAT richtig negativ <i>True negative results</i>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
RIDAGENE Stool Panel [20] (n = 7)	13	13 / 19 [§]	68	7	7 / 7	100
Other commercial tests [27] (n = 14)	37	37 / 42	88	14	14 / 14	100
<i>In house</i> PCR assay [28] (n = 9)	22	22 / 27	81	9	9 / 9	100

[§] Due to reporting questionable results, the number of true results (denominator in the „relative“ column) has been reduced.

Comments: ¹⁾ As sample #1815373 contained a low number of *Salmonella enterica* target organisms, negative PCR results were not rated “false negative” in this EQAS distribution.