

**PCR-/NAT *Salmonella enterica*
 (RV 537) November 2012**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1225371	+++	61	<i>S. enterica</i> ser. Typhimurium (~ 1x10 ⁵ CFU/mL)
1225372	+	61	<i>S. enterica</i> ser. Typhimurium (~ 1x10 ³ CFU/mL)
1225373	∅	62	<i>Escherichia coli</i> K12
1225374	++	61	<i>S. enterica</i> ser. Typhimurium (~ 1x10 ⁴ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 12</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>					
<i>Befund Result</i>	1225371	1225372	1225373	1225374	1225371	1225372	1225373	1225374		
Positiv	12	9	0	11	n.d.	0	0	0	0	
Negativ	0	3 ¹⁾	12	1	nein no	12	12	12	12	
Fraglich Questionable	0	0	0	0	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>	%
Other commercial tests [27] (n = 5)	15	15 / 15	100	5	5 / 5	100
In house PCR assay [28] (n = 8)	20	20 / 24	83	8	8 / 8	100

* Durch Mehrfachnennung oder fehlende Angabe kann die absolute Zahl der Ergebnisse (Tab. 2) von der Anzahl der Teilnehmer abweichen.
 Due to reporting results of multiple assay systems or missing specifications, the effective numbers are not correlating with the number of participants

Comments: ¹⁾ As sample #1225372 contained a very low number of *S. enterica* ser. Typhimurium target organisms, negative PCR results were not rated as “false negative”, but the participants may consider to improve the analytical sensitivity of their corresponding PCR assays.