

**PCR-/NAT *Francisella tularensis*  
 (RV 543) November 2011**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1125431	++	61	<i>Francisella tularensis</i> holarctica (~ 1x10 <sup>4</sup> CFU/mL)
1125432	∅	62	<i>Escherichia coli</i> K12
1125433	++	61	<i>Francisella tularensis</i> holarctica (~ 1x10 <sup>4</sup> CFU/mL)
1125434	(+)	61	<i>Francisella tularensis</i> holarctica (~ 1x10 <sup>3</sup> CFU/mL)

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

<i>n</i> = 13	Probennummer (Sample no.)				Inhibition				
Befund <i>Result</i>	1125431	1125432	1125433	1125434	1125431	1125432	1125433	1125434	
Positiv	12	0	12	3	n.d.	0	0	0	0
Negativ	0	12	1	8 <sup>1)</sup>	nein <i>no</i>	13	13	13	13
Fraglich <i>Questionable</i>	1	1	0	2	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 <i>True negative results</i>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
LightMix <i>F. tularensis</i> [20] (n = 3)	7	7 / 9	78	3	3 / 3	100
Commercial assay / kit [27] (n = 1)	2	2 / 3	67	1	1 / 1	100
In house PCR assay [28] (n = 10)	20	20 / 27 <sup>§</sup>	74	9	9 / 9 <sup>§</sup>	100

<sup>§</sup> Due to reporting questionable results, the number of true results (denominator in the "relative" column) have been reduced.

**Comments:** <sup>1)</sup> As sample # 1125434 contained a very low number of *Francisella tularensis* 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.