

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



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1115431	+++	61	<i>Francisella tularensis holarctica</i> (~ 1x10 <sup>6</sup> CFU/mL)
1115432	+	61	<i>Francisella tularensis holarctica</i> (~ 1x10 <sup>4</sup> CFU/mL)
1115433	(+)	61	<i>Francisella tularensis holarctica</i> (~ 1x10 <sup>3</sup> CFU/mL)
1115434	∅	62	<i>Escherichia coli</i> K12

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

<i>n = 7</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
<i>Befund Result</i>	1115431	1115432	1115433	1115434	1115431	1115432	1115433	1115434	
<b>Positiv</b>	7	3	5	0	n.d.	0	0	0	0
<b>Negativ</b>	0	4 <sup>1)</sup>	2 <sup>1)</sup>	7	nein no	7	7	7	7
<b>Fraglich Questionable</b>	0	0	0	0	ja yes	0	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.*

<b>NAT-Methode</b> [Code] (total number *)	<b>NAT richtig positiv</b> <i>True positive results</i>			<b>NAT richtig negativ</b> <i>True negative results</i>		
	<b>Absolut</b> <i>Absolute</i>	<b>Relativ</b> <i>Relative</i>	<b>%</b>	<b>Absolut</b> <i>Absolute</i>	<b>Relativ</b> <i>Relative</i>	<b>%</b>
<b>LightMix <i>F.tularensis</i> [20] (n =3)</b>	<b>7</b>	7 / 9	<b>78</b>	<b>3</b>	3 / 3	<b>100</b>
<b>In house PCR assay [28] (n = 3)</b>	<b>7</b>	7 / 9	<b>78</b>	<b>3</b>	3 / 3	<b>100</b>
<b>Andere / k.A. / other [29] (n =1)</b>	<b>1</b>	1 / 3	<b>33</b>	<b>1</b>	1 / 1	<b>100</b>

**Comments:** <sup>1)</sup> As sample # 1115432 and # 1115433 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.