

PCR-/NAT *Francisella tularensis*
(RV 543) Juni 2017



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1715431	+++	61	<i>Francisella tularensis tularensis</i> (~ 1x10 ⁵ CFU/mL)
1715432	++	61	<i>Francisella tularensis holarctica</i> (~ 1x10 ⁴ CFU/mL)
1715433	∅	62	<i>Escherichia coli</i> K12
1715434	+++	61	<i>Francisella tularensis novicida</i> (~ 1x10 ⁵ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 26</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>							
<i>Befund Result</i>	<i>1715431</i>	<i>1715432</i>	<i>1715433</i>	<i>1715434</i>	<i>1715431</i>	<i>1715432</i>	<i>1715433</i>	<i>1715434</i>	<i>1715431</i>	<i>1715432</i>	<i>1715433</i>	<i>1715434</i>
Positiv	25	18	0	24	n.d.	0	0	0	0	0	0	0
Negativ	1	7 ¹⁾	26	2	nein <i>no</i>	26	26	26	26	26	26	26
Fraglich <i>Questionable</i>	0	1	0	0	ja <i>yes</i>	0	0	0	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 = 5)	12	12 / 15	80	5	5 / 5	100
Commercial assay / kit [27] (n = 2)	4	4 / 6	67	2	2 / 2	100
In house PCR assay [28] (n = 17)	47	47 / 50 [§]	94	17	17 / 17	100
Andere / k.A. / other [29] (n = 2)	4	4 / 6	67	2	2 / 2	100

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

Comments: ¹⁾ As sample #1715432 contained a low number of *F. tularensis* target organisms, negative PCR results were not rated “false negative” in this EQAS distribution.