

**PCR-/NAT *Coxiella burnetii*
 (RV 542) November 2012**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1225421	∅	62	<i>Escherichia coli</i> K12
1225422	+++	61	<i>Coxiella burnetii</i> (~ 1x10 ⁵ genome copies/mL)
1225423	++	61	<i>Coxiella burnetii</i> (~ 1x10 ⁴ genome copies/mL)
1225424	(+)	61	<i>Coxiella burnetii</i> (~ 1x10 ³ genome copies/mL)

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

<i>n = 20</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1225421	1225422	1225423	1225424		1225421	1225422	1225423	1225424
Befund <i>Result</i>									
Positiv	0	20	20	16	n.d.	0	0	0	0
Negativ	20	0	0	3 ¹⁾	nein <i>no</i>	20	20	20	20
Fraglich <i>Questionable</i>	0	0	0	1	ja <i>yes</i>	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.

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>C. burnetii</i> [20] (n = 2)	6	6 / 6	100	2	2 / 2	100
In house PCR assay [28] (n = 18)	50	50 / 53 [§]	94	18	18 / 18	100

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

Comments: ¹⁾ As sample #1225424 contained a very low number of *Coxiella burnetii* 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.