

**PCR-/NAT *Chlamydia pneumoniae*
 (RV 540) November 2012**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1225401	(+)	61	<i>Chlamydia pneumoniae</i> (~ 1x10 ² IFU/mL)
1225402	Ø	62	<i>Chlamydia trachomatis D</i> (~ 1x10 ⁵ IFU/mL)
1225403	Ø	62	<i>Escherichia coli</i> K12
1225404	++	61	<i>Chlamydia pneumoniae</i> (~ 1x10 ⁴ IFU/mL)

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

<i>n = 93</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1225401	1225402	1225403	1225404		1225401	1225402	1225403	1225404
Befund <i>Result</i>									
Positiv	78	2	2	90	n.d.	0	0	0	0
Negativ	14 ¹⁾	91	91	3	nein <i>no</i>	93	93	93	93
Fraglich <i>Questionable</i>	1	0	0	0	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.pneumoniae</i> [21] (n =14)	27	27 / 28	96	28	28 / 28	100
Other commercial tests [27] (n = 32)	58	58 / 64	91	64	64 / 64	100
In house PCR assay [28] (n = 45)	79	79 / 89 [§]	89	86	86 / 90	96
Andere / k.A. / other [29] (n=2)	4	4 / 4	100	4	4 / 4	100

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

Comments: ¹⁾ As sample #1225401 contained a very low number of *Chlamydia pneumoniae* 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.