

**PCR-/NAT *Mycoplasma pneumoniae*
 (RV 541) Mai 2013**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1315411	∅	62	<i>Escherichia coli</i> K12
1315412	++	61	<i>Mycoplasma pneumoniae</i> (~ 10 ⁵ genome copies/mL)
1315413	+	61	<i>Mycoplasma pneumoniae</i> (~ 10 ⁴ genome copies/mL)
1315414	+++	61	<i>Mycoplasma pneumoniae</i> (~ 10 ⁶ genome copies/mL)

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

<i>n</i> = 119	Probennummer (Sample no.)				Inhibition				
	1315411	1315412	1315413	1315414	1315411	1315412	1315413	1315414	
Befund <i>Result</i>									
Positiv	1	119	109	118	n.d.	1	1	1	1
Negativ	118	0	8 ¹⁾	1	nein <i>no</i>	118	118	118	118
Fraglich <i>Questionable</i>	0	0	2 ¹⁾	0	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>M.pneumoniae</i> [20] (n = 10)	29	29 / 29 [§]	100	10	10 / 10	100
Minerva Venor Mp [22] (n = 1)	3	3 / 3	100	1	1 / 1	100
AmpliGnost MP PCR Kit [23] (n = 2)	6	6 / 6	100	2	2 / 2	100
Diagenode MP/CP [24] (n = 9)	26	26 / 27	96	9	9 / 9	100
Commercial assay / kit [27] (n = 34)	96	96 / 102	94	33	33 / 34	97
<i>In house</i> PCR assay [28] (n = 58)	172	172 / 174	99	58	58 / 58	100
Andere / k.A. / other [29] (n = 6)	17	17 / 17 [§]	100	6	6 / 6	100

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

* Durch Mehrfachnennung oder fehlende Angabe kann die absolute Zahl der Ergebnisse (Tab. 2) von der Anzahl der Teilnehmer abweichen.
Due to reporting results of multiple assay systems or missing specifications, the effective numbers are not correlating with the number of participants.

Comments: ¹⁾ As sample #1315413 contained a low number of *Mycoplasma pneumoniae* target organisms, negative PCR results were not rated “false negative”, but the participants may consider to improve the analytical sensitivity of corresponding PCR assays.