

**PCR-/NAT *Mycoplasma pneumoniae*
 (RV 541) Mai / Juni 2018**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1815411	++	61	<i>Mycoplasma pneumoniae</i> (~ 1x10 ⁴ genome copies/mL)
1815412	∅	62	<i>Escherichia coli</i> K12
1815413	+++	61	<i>Mycoplasma pneumoniae</i> (~ 1x10 ⁵ genome copies/mL)
1815414	+	61	<i>Mycoplasma pneumoniae</i> (~ 1x10 ³ genome copies/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 159</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1815411	1815412	1815413	1815414	1815411	1815412	1815413	1815414	
Befund <i>Result</i>									
Positiv	158	0	158	128	n.d.	2	2	2	2
Negativ	0	159	0	28 ¹⁾	nein <i>no</i>	157	157	157	157
Fraglich <i>Questionable</i>	1	0	1	3 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>M.pneumoniae</i> [20] (n = 16)	46	46 / 47 §	98	16	16 / 16	100
AID CAP Bacteria [21] (n = 4)	10	10 / 12	83	4	4 / 4	100
Minerva Biolabs Venor Mp [22] (n = 1)	0	0 / 1 §	0	1	1 / 1	100
AmpliGnost MP PCR Kit [23] (n = 5)	15	15 / 15	100	5	5 / 5	100
Diagenode MP/CP [24] (n = 9)	27	27 / 27	100	9	9 / 9	100
r-Biopharm RIDAGENE Mp [25] (n = 6)	16	16 / 18	89	6	6 / 6	100
GeneProof <i>M. pneumoniae</i> [26] (n = 8)	22	22 / 24	92	8	8 / 8	100
Commercial assay / kit [27] (n = 54)	152	152 / 161 §	94	54	54 / 54	100
<i>In house</i> PCR assay [28] (n = 53)	148	148 / 158 §	94	53	53 / 53	100
Andere / k.A. / other [29] (n = 5)	14	14 / 15	93	5	5 / 5	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 #1815414 contained a low number of *Mycoplasma pneumoniae* target organisms, negative PCR results were not rated “false negative” in this EQAS distribution.