

**PCR-/NAT *Mycoplasma pneumoniae*  
 (RV 541) Mai 2022**



**Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.**

*Sample composition and expected results.*

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2215411	+++	61	<i>Mycoplasma pneumoniae</i> (~ 5x10 <sup>5</sup> genome copies/mL)
2215412	∅	62	<i>Mycoplasma genitalium</i> (~ 1x10 <sup>5</sup> genome copies/mL)
2215413	∅	62	<i>Escherichia coli</i> K12
2215414	++	61	<i>Mycoplasma pneumoniae</i> (~ 5x10 <sup>4</sup> genome copies/mL)

**Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.**

*Absolute numbers of reported individual results.*

<i>n = 149</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	2215411	2215412	2215413	2215414	2215411	2215412	2215413	2215414	
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	148	2	3	146	n.d.	2	2	2	2
<b>Negativ</b>	0	146	145	2	nein <i>no</i>	146	146	146	146
<b>Fraglich</b> <i>Questionable</i>	1	1	1	1	ja <i>yes</i>	1	1	1	1

**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.*

<b>NAT-Methode</b> [Code] (total number)	<b>NAT richtig positiv</b> <i>True positive results</i>				<b>NAT richtig negativ</b> <i>True negative results</i>			
	2215411		2215414		2215412		2215413	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
AID CAP bacteria (n = 7)	7	100	7	100	7	100	7	100
ARGENE C.pn / M.pn r-gene (n = 7)	7	100	7	100	7	100	7	100
Amplex eazyplex PneumoBug exp. (n = 2)	2	100	2	100	2	100	2	100
AmpliGnost M. pneumoniae (n = 6)	6	100	6	100	6	100	6	100
AmpliSens M.pn./C.pn. FRT Kit (n = 1)	1	100	1	100	1	100	1	100
FILMARRAY Resp. Panel (n = 1)	1	100	1	100	1	100	1	100
FILMARRAY Resp. Panel 2.1 plus (n = 2)	2	100	2	100	2	100	2	100

<b>BioGx auf BD Max (n = 8)</b>	<b>8</b>	<b>100</b>	<b>8</b>	<b>100</b>	<b>8</b>	<b>100</b>	<b>8</b>	<b>100</b>
<b>FTD Atypical CAP (n = 2)</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>
<b>FTD Respiratory Pathogens 21 (n = 1)</b>	<b>1</b>	<b>100</b>	<b>1</b>	<b>100</b>	<b>1</b>	<b>100</b>	<b>1</b>	<b>100</b>
<b>GeneProof M. pneumoniae (n = 10)</b>	<b>10</b>	<b>100</b>	<b>10</b>	<b>100</b>	<b>10</b>	<b>100</b>	<b>10</b>	<b>100</b>
<b>Luminex MagPix Resp. Pathogen (n = 3)</b>	<b>3</b>	<b>100</b>	<b>3</b>	<b>100</b>	<b>3</b>	<b>100</b>	<b>3</b>	<b>100</b>
<b>Mikrogen Diagenode M.pn./C.pn. (n = 2)</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>
<b>Mikrogen ampliCube Resp. panel 1 (n=10)</b>	<b>10</b>	<b>100</b>	<b>9</b>	<b>90</b>	<b>10</b>	<b>100</b>	<b>9</b>	<b>90</b>
<b>Alethia Mycoplasma direct (n = 2)</b>	<b>1*</b>	<b>50</b>	<b>0*</b>	<b>0</b>	<b>1*</b>	<b>50</b>	<b>0*</b>	<b>0</b>
<b>Sacace M.pn./C.pn. Real-TM (n = 5)</b>	<b>5</b>	<b>100</b>	<b>5</b>	<b>100</b>	<b>5</b>	<b>100</b>	<b>5</b>	<b>100</b>
<b>Sartorius Microsart ATMP Myc. (n = 1)</b>	<b>1</b>	<b>100</b>	<b>1</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Seegene Allplex Resp. Panel 4 (n = 13)</b>	<b>13</b>	<b>100</b>	<b>13</b>	<b>100</b>	<b>13</b>	<b>100</b>	<b>13</b>	<b>100</b>
<b>LightMix M. pneumoniae (n = 13)</b>	<b>13</b>	<b>100</b>	<b>13</b>	<b>100</b>	<b>13</b>	<b>100</b>	<b>13</b>	<b>100</b>
<b>RIDAGENE M. pneumoniae (n = 5)</b>	<b>5</b>	<b>100</b>	<b>5</b>	<b>100</b>	<b>5</b>	<b>100</b>	<b>5</b>	<b>100</b>
<b>In house PCR assay (n = 39)</b>	<b>39</b>	<b>100</b>	<b>39</b>	<b>100</b>	<b>38</b>	<b>97</b>	<b>39</b>	<b>100</b>
<b>Other commercial tests (n = 9)</b>	<b>9</b>	<b>100</b>	<b>9</b>	<b>100</b>	<b>9</b>	<b>100</b>	<b>9</b>	<b>100</b>

\* Inhibition

**Comments:**

1. Unter "Andere kommerzielle Testsysteme" sind folgende Testsysteme aufgeführt: Seegene Allplex PneumoBacter assay (1x), PathoFinder RespiFinder 2Smart (1x), AusDiagnostics Atypical Pneumonia 8-well (1x), Ingenetix BactoReal M. pneumoniae (1x), TIB Molbiol LightMix modular Mycoplasma (1x), CerTest VIASURE C. pneumonia, M. pneumonia and L. pneumophila Real Time PCR Detection Kit -CML172- (1x), DNA-TECHNOLOGY C.pn / M.pn multiplex Real Time PCR Kit (1x) und r-Biopharm RIDAGENE CAP Bac (1x).