

**PCR-/NAT *Mycoplasma pneumoniae*
 (RV 541) November 2023**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
541 231024 01	++	61	<i>Mycoplasma pneumoniae</i> (~ 1x10 ⁴ genome copies/mL)
541 231024 02	∅	62	<i>Escherichia coli</i> K12
541 231024 03	∅	62	<i>Mycoplasma genitalium</i> (~ 2x10 ⁴ genome copies/mL)
541 231024 04	+++	61	<i>Mycoplasma pneumoniae</i> (~ 1x10 ⁵ genome copies/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

n = 149	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	149	5	6	149	n.d.	1	1	1	1
Negativ	0	144	143	0	nein <i>no</i>	148	148	148	148
Fraglich <i>Questionable</i>	0	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>			
	01		04		02		03	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
AID CAP bacteria (n = 6)	6	100	6	100	6	100	6	100
ARGENE C.pn / M.pn r-gene (n = 6)	6	100	6	100	6	100	6	100
Amplex eazyplex PneumoBug exp. (n = 4)	4	100	4	100	4	100	4	100
AmpliGnost M. pneumoniae (n = 5)	5	100	5	100	5	100	5	100
BioGx auf BD Max (n = 7)	7	100	7	100	7	100	7	100
FILMARRAY Resp. Panel 2.1 plus (n = 3)	3	100	3	100	3	100	3	100
Biolegio ReadyMax b-CAP Assay (n = 1)	1	100	1	100	1	100	1	100
FTD Atypical CAP (n = 1)	1	100	1	100	1	100	1	100

FTD Respiratory Pathogens 21 (n = 1)	1	100	1	100	1	100	1	100
GeneProof M. pneumoniae (n = 7)	7	100	7	100	7	100	7	100
Luminex MagPix Resp. Pathogen (n = 5)	5	100	5	100	5	100	5	100
ampliCube Resp. panel 1 (n = 1)	1	100	1	100	1	100	1	100
ampliCube Resp. panel 1.1 /1.1LC (n = 15)	15	100	15	100	15	100	15	100
Alethia Mycoplasma direct (n = 2)	2	100	2	100	2	100	2	100
Sacace M.pn./C.pn. Real-TM (n = 1)	1	100	1	100	1	100	1	100
Sartorius Microsart ATMP Myc. (n = 3)	3	100	3	100	1	33	1	33
Seegene Allplex Pneumobacter (n = 9)	9	100	9	100	9	100	9	100
Seegene Allplex Resp. Panel 4 (n = 13)	13	100	13	100	13	100	13	100
LightMix M. pneumoniae (n = 9)	9	100	9	100	9	100	9	100
RIDAGENE CAP Bac (n = 5)	5	100	5	100	5	100	5	100
RIDAGENE M. pneumoniae (n = 1)	1	100	1	100	1	100	1	100
In house PCR assay (n = 27)	27	100	27	100	27	100	26	96
Other commercial tests (n = 17)	17	100	17	100	14	82	14	82

Comments:

1. The following tests are listed under "Other commercial tests": PathoFinder RespiFinder 2Smart (1x), AusDiagnostics Pneumonia 16-well (2x), Ingenetix BactoReal M. pneumoniae (1x), Genetic Signatures EasyScreen Respiratory Pathogens Detection kit (2x), Applied Biosystems MycoSEQ Mycoplasma PCR Detection Kit (1x), DNA-TECHNOLOGY C. pneumoniae, M. pneumoniae multiplex (1x), Luminex NxTAG Respiratory Pathogen Panel + SARS-CoV-2 (1x), Qiagen QiaStat-Dx Respiratory Sars- Cov- 2 Panel (2x), Qiagen QiaStat-Dx ME Panel (1x), Qiagen QuantiNova Multiplex PCR Kit (1x), Minerva Venor GeM qEP (1x), CerTest VIASURE C. pneumonia, M. pneumonia and L. pneumophila Real Time PCR Detection Kit -CML172- (1x) and ELITechGroup Respiratory Bacterial ELITe MGB Panel (2x).