

**PCR-/NAT *Chlamydia pneumoniae*  
 (RV 540) November 2023**



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

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
540 231024 01	+++	61	<i>Chlamydia pneumoniae</i> (~ 2x10 <sup>5</sup> IFU/mL)
540 231024 02	++	61	<i>Chlamydia pneumoniae</i> (~ 2x10 <sup>4</sup> IFU/mL)
540 231024 03	+	61	<i>Chlamydia pneumoniae</i> (~ 2x10 <sup>3</sup> IFU/mL)
540 231024 04	∅	62	<i>Escherichia coli</i> K12

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

n = 133	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	124	133	87	0	n.d.	1	1	1	1
<b>Negativ</b>	9	0	46	133	nein <i>no</i>	132	132	132	132
<b>Fraglich</b> <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	
	01		02		03		04	
	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	1	17	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)	3	75	4	100	2	50	4	100
AmpliGnost C. pneumoniae (n = 5)	5	100	5	100	4	80	5	100
AmpliSens M.pn./C.pn. FRT PCR (n = 1)	1	100	1	100	0	0	1	100
AusDiagnostics Respiratory Pathogens (n=1)	1	100	1	100	1	100	1	100
BioGx auf BD Max (n = 6)	6	100	6	100	6	100	6	100
FILMARRAY Resp. Panel 2.1 plus (n = 2)	2	100	2	100	1	50	2	100
Biolegio ReadyMax b-CAP Assay (n = 2)	2	100	2	100	1	50	2	100
GeneProof C. pneumoniae (n = 9)	9	100	9	100	7	78	9	100

Luminex Resp. Pathogen Multiplex (n = 2)	2	100	2	100	2	100	2	100
ampliCube Resp. panel 1.1 / 1.1LC (n =14)	13	93	14	100	11	79	14	100
Sacace M.pn. /C. pn. Real-TM (n = 1)	1	100	1	100	1	100	1	100
Seegene Allplex Pneumobacter (n = 10)	8	80	10	100	4	40	10	100
Seegene Allplex Resp. Panel 4 (n = 14)	14	100	14	100	10	71	14	100
LightMix C. pneumoniae (n = 7)	7	100	7	100	6	86	7	100
r-Biopharm RIDAGENE CAP Bac (n = 7)	7	100	7	100	4	57	7	100
In house PCR assay (n = 24)	22	92	24	100	16	67	24	100
Other commercial tests (n = 12)	9	75	12	100	4	33	12	100

**Comments:**

1. The following tests are listed under "Other commercial tests": PathoFinder RespiFinder 2Smart (1x), AusDiagnostics Pneumonia 16-well (1x), CerTest VIASURE C. pneumonia, M. pneumonia and L. pneumophila Real Time PCR Detection Kit -CML172- (1x), Genetic Signatures EasyScreen Atypical Respiratory Pathogens Kit (2x), Luminex MagPix Respiratory Pathogen Panel Assay (1x), Luminex NxTAG Respiratory Pathogen Panel + SARS-CoV-2 (1x), Anatolia Gene works Bosphore Chlamydia pneumoniae Detection Kit (1x), QIAGEN QIAstat-Dx Respiratory Sars CoV-2 panel (2x), DNA-TECHNOLOGY C. pneumoniae, M. pneumoniae multiplex (1x) and ELITechGroup Respiratory Bacterial ELITe MGB Panel (1x).
2. As sample # 540 231024 03 contained a low number of *Chlamydia pneumoniae* target organisms, negative PCR results were not scored.