

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



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

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
540 230523 01	∅	62	<i>Escherichia coli</i> K12
540 230523 02	+++	61	<i>Chlamydia pneumoniae</i> (~ 5x10 ⁵ IFU/mL)
540 230523 03	∅	62	<i>Hämophilus influenzae</i> (~5x10 ⁴ CFU/mL)
540 230523 04	+	61	<i>Chlamydia pneumoniae</i> (~ 5x10 ³ IFU/mL)

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

n = 146	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	1	146	1	141	n.d.	3	3	3	3
Negativ	145	0	145	5	nein <i>no</i>	143	143	143	143
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 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>			
	02		04		01		03	
	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 = 6)	6	100	5	83	5	83	5	83
Amplex eazyplex PneumoBug exp. (n = 5)	5	100	4	80	5	100	5	100
AmpliGnost C. pneumoniae (n = 5)	5	100	5	100	5	100	5	100
AmpliSens M.pn./C.pn. FRT PCR (n = 3)	3	100	3	100	3	100	3	100
BioGx auf BD Max (n = 6)	6	100	6	100	6	100	6	100
FILMARRAY Resp. Panel 2.1 plus (n = 3)	3	100	3	100	3	100	3	100
Biolegio ReadyMax b-CAP Assay (n = 2)	2	100	2	100	2	100	2	100
GeneProof C. pneumoniae (n = 11)	11	100	11	100	11	100	11	100

Ingenetix Bacto Real C. pn.(n = 1)	1	100	1	100	1	100	1	100
Luminex Resp. Pathogen Multiplex (n = 2)	2	100	2	100	2	100	2	100
Mikrogen Diagenode M.pn / C. pn (n = 1)	1	100	1	100	1	100	1	100
ampliCube Resp. panel 1 (n = 1)	1	100	1	100	1	100	1	100
ampliCube Resp. panel 1.1 / 1.1LC (n =10)	10	100	9	90	10	100	10	100
Sacace M.pn. /C. pn. Real-TM (n = 2)	2	100	2	100	2	100	2	100
Seegene Allplex Pneumobacter (n = 6)	6	100	5	83	6	100	6	100
Seegene Allplex Resp. Panel 4 (n = 17)	17	100	17	100	17	100	17	100
LightMix C. pneumoniae (n = 9)	9	100	9	100	9	100	9	100
r-Biopharm RIDAGENE CAP Bac (n = 7)	7	100	6	86	7	100	7	100
In house PCR assay (n = 31)	31	100	31	100	31	100	31	100
Other commercial tests (n = 11)	11	100	11	100	11	100	11	100

Comments:

1. The following tests are listed under "Other commercial tests": PathoFinder RespiFinder 2Smart (1x), AusDiagnostics HP-Pneumonia (1x), AusDiagnostics Pneumonia 16-well (1x), Fast Track Diagnostics FTD Bacterial pneumonia CAP (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 NxTAG Respiratory Pathogen Panel + SARS-CoV-2 (1x), Anatolia Gene works Bosphore Chlamydia pneumoniae Detection Kit (1x) and ELITechGroup Respiratory Bacterial ELITe MGB Panel (1x).