

**PCR-/NAT *Chlamydia pneumoniae*
 (RV 540) Mai 2024**



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

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
540A 240521 01	+++	61	<i>Chlamydia pneumoniae</i> (~ 1x10 ⁵ IFU/mL)
540A 240521 02	∅	62	<i>Escherichia coli</i> K12
540A 240521 03	∅	62	<i>Escherichia coli</i> K12
540A 240521 04	++	61	<i>Chlamydia pneumoniae</i> (~ 2x10 ⁴ IFU/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	1	1	149	n.d.	3	3	3	3
Negativ	0	148	148	0	nein <i>no</i>	146	146	146	146
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>			
	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	5	83
ARGENE C.pn / M.pn r-gene (n = 5)	5	100	5	100	5	100	5	100
Amplex eazyplex PneumoBug exp. (n = 5)	5	100	5	100	5	100	5	100
AmpliGnost C. pneumoniae (n = 4)	4	100	4	100	4	100	4	100
AmpliSens M.pn./C.pn. FRT PCR (n = 1)	1	100	1	100	1	100	1	100
AusDiagnostics Resp. Pathogens 24-well (n = 2)	2	100	2	100	2	100	2	100
BioGx auf BD Max (n = 5)	5	100	5	100	5	100	5	100
FILMARRAY Resp. Panel 2.1 plus (n = 3)	2	100	2	100	2	100	2	100
Biolegio ReadyMax b-CAP Assay (n = 3)	3	100	3	100	3	100	3	100

GeneProof <i>C. pneumoniae</i> (n = 11)	11	100	11	100	11	100	11	100
EasyScreen Atypical Respiratory Kit (n = 1)	1	100	1	100	1	100	1	100
Luminex Resp. Pathogen Multiplex (n = 4)	4	100	4	100	4	100	4	100
Mikrogen Diagenode <i>M.pn</i> / <i>C. pn</i> (n = 1)	1	100	1	100	1	100	1	100
ampliCube Resp. panel 1.1 / 1.1LC (n = 12)	12	100	12	100	12	100	12	100
QIAstat-Dx Resp. Sars CoV-2 panel (n = 2)	2	100	2	100	2	100	2	100
Sacace <i>M.pn.</i> / <i>C. pn.</i> Real-TM (n = 2)	2	100	2	100	2	100	2	100
Seegene Allplex Pneumobacter (n = 13)	13	100	13	100	13	100	13	100
Seegene Allplex Resp. Panel 4 (n = 19)	19	100	19	100	19	100	19	100
LightMix <i>C. pneumoniae</i> (n = 8)	8	100	8	100	8	100	8	100
r-Biopharm RIDAGENE CAP Bac (n = 10)	10	100	10	100	10	100	10	100
<i>In house</i> PCR assay (n = 24)	24	100	24	100	24	100	24	100
Other commercial tests (n = 9)	9	100	9	100	8	89	9	100

Comments:

1. The following tests are listed under "Other commercial tests": CerTest VIASURE *C. pneumoniae*, *M. pneumoniae* and *L. pneumophila* Real Time PCR Detection Kit (CML172) (3x), Anatolia Gene Works Bosphore *C. pneumoniae* Detection Kit (1x), DNA-TECHNOLOGY *C. pneumoniae*, *M. pneumoniae* multiplex (1x), ELITechGroup Respiratory Bacterial ELITe MGB Panel (1x), Luminex NxTAG Respiratory Pathogen Panel + SARS-CoV-2 (1x), PathoFinder RespiFinder 2Smart (1x) and Roche COBAS 5800 (1x).