

**PCR-/NAT *Legionella pneumophila*
 (RV 536) Mai 2022**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2215361	++	61	<i>Legionella pneumophila</i> SG1 (~ 5x10 ⁴ CFU/mL)
2215362	+++	61	<i>Legionella pneumophila</i> SG1 (~ 5x10 ⁵ CFU/mL)
2215363	+	61	<i>Legionella pneumophila</i> SG1 (~ 5x10 ³ CFU/mL)
2215364	∅	62	<i>Escherichia coli</i> K12

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 121</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	<i>2215361</i>	<i>2215362</i>	<i>2215363</i>	<i>2215364</i>		<i>2215361</i>	<i>2215362</i>	<i>2215363</i>	<i>2215364</i>
Befund <i>Result</i>									
Positiv	121	121	115	0	n.d.	2	2	2	2
Negativ	0	0	6	121	nein <i>no</i>	119	119	119	119
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	
	2215361		2215362		2215363		2215364	
	<i>Absolut</i> <i>Absolute</i>	<i>%</i>	<i>Absolut</i> <i>Absolute</i>	<i>%</i>	<i>Absolut</i> <i>Absolute</i>	<i>%</i>	<i>Absolut</i> <i>Absolute</i>	<i>%</i>
AID CAP Bacteria (n= 7)	7	100	7	100	7	100	7	100
ARGENE L. pneumo/Cc R-GENE (n= 5)	5	100	5	100	5	100	5	100
Amplex eazyplex PneumoBug exp.(n= 3)	3	100	3	100	1	33	3	100
AmpliGnost L. pneumophila (n= 5)	5	100	5	100	4	80	5	100
BioGx auf BD Max (n= 4)	4	100	4	100	4	100	4	100
ReadyMax Atypical Pneumonia 1 (n= 2)	2	100	2	100	2	100	2	100

ReadyMax b-CAP Assay (n= 2)	2	100	2	100	2	100	2	100
Diagenode R-DiaLeg (n= 1)	1	100	1	100	1	100	1	100
FTD Atypical CAP (n= 1)	1	100	1	100	1	100	1	100
GeneProof L. pneumophila (n= 6)	6	100	6	100	6	100	6	100
Gerbion Diarella Legionella (n= 1)	1	100	1	100	1	100	1	100
Ingenetix BactoReal L.pn. (n= 2)	2	100	2	100	2	100	2	100
Luminex Resp. Pathogen Panel (n= 2)	2	100	2	100	2	100	2	100
Seegene Allplex Resp. Panel 4 (n= 17)	17	100	17	100	16	94	17	100
Tib Molbiol LightMix Legionella (n= 11)	11	100	11	100	10	91	11	100
RIDAGENE Legionella (n= 10)	10	100	10	100	10	100	10	100
In house PCR assay (n= 31)	31	100	31	100	30	97	31	100
Other commercial tests (n= 11)	11	100	11	100	11	100	11	100

Comments:

1. Unter "Andere kommerzielle Testsysteme" sind folgende Testsysteme aufgeführt: Seegene Allplex PneumoBacter Assay (1x), AnDiatec Quidel L. pneumophila (1x), MIKROGEN alphaCube Legionella (1x), r-Biopharm RIDAGENE CAP Bac (1x), Sacace Biotechnologies L. pneumophila Real-TM (1x), Vitassay qPCR Legionella pneumophila (1x), AusDiagnostics (2x) und PathoFinder RespiFinder 2Smart (1x).