

PCR-/NAT *Legionella pneumophila* (RV 536) Mai 2026



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
536 260519 01	++	61	<i>Legionella pneumophila</i> SG1 (~ 5x10 ⁴ CFU/mL)
536 260519 02	+++	61	<i>Legionella pneumophila</i> SG7 (~ 5x10 ⁵ CFU/mL)
536 260519 03	Ø	62	<i>Legionella jordanis</i> (~ 1x10 ⁵ CFU/mL)
536 260519 04	Ø	62	<i>Escherichia coli</i> K12

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n</i> = 141		Proben Nr. (Sample no.)				Inhibition				
Befund Result		01	02	03	04		01	02	03	04
Positiv	129	141	1	1		n.d.	3	3	3	3
Negativ	12	0	140	139		nein no	138	138	138	138
Fraglich Questionable	0	0	0	1		ja yes	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 True positive results				NAT richtig negativ True negative results			
	01		02		03		04	
	Absolut Absolute	%	Absolut Absolute	%	Absolut Absolute	%	Absolut Absolute	%
AID CAP Bacteria (n= 3)	2	67	3	100	3	100	3	100
ARGENE L. pneumo/Cc R-GENE (n= 1)	1	100	1	100	1	100	1	100
Amplex eazypex PneumoBug expert (n= 4)	3	75	4	100	4	100	3§	100
AmpliGnost L. pneumophila (n= 2)	2	100	2	100	2	100	1	50
BioGX for BD MAX M.pn., Legionella spp, C.pn. (n= 1)	1	100	1	100	1	100	1	100
BioGX for BD MAX M.pn., L.pn., C.pn., Pneumocystis jirovecii (n= 1)	1	100	1	100	1	100	1	100
BioGX for BD MAX M.pn., L.pn., C.pn. (n= 2)	2	100	2	100	2	100	2	100

BioFire FILMARRAY Pneumonia plus (n= 3)	3	100	3	100	3	100	3	100
Biolegio READYMAX AP-1 (n= 1)	0	0	1	100	1	100	1	100
Biolegio READYMAX b-CAP Assay (n= 3)	3	100	3	100	3	100	3	100
CerTest VIASURE C.pn, M.pn, L.pn (n= 5)	4	80	5	100	5	100	5	100
GeneProof L. pneumophila (n= 6)	6	100	6	100	6	100	6	100
Gerbion Diarella Legionella (n= 2)	2	100	2	100	2	100	2	100
Luminex NxTAG Respiratory Pathogen (n= 3)	3	100	3	100	3	100	3	100
ampliCube Resp. panel 1.1/1.1LC (n= 9)	6	67	9	100	9	100	9	100
QIAstat-Dx Resp. Sars-CoV-2 (n= 3)	2	67	3	100	3	100	3	100
Roche UC-TIB-Respi-BAC-2 (n= 7)	7	100	7	100	7	100	7	100
Seegene Allplex Pneumobacter (n= 15)	15	100	15	100	15	100	15	100
Seegene Allplex Resp. Panel 4 (n= 22)	22	100	22	100	22	100	22	100
TIB Molbiol LightMix Legionella pn. or Legionella spp/pn (n= 5)	3	60	5	100	5	100	5	100
RIDAGENE or RIDAUNITY CAP Bac (n= 4)	4	100	4	100	4	100	4	100
r-Biopharm RIDAGENE Legionella Kit (n= 9)	9	100	9	100	9	100	9	100
In house PCR assay (n= 17)	16	94	17	100	16	94	17	100
Other commercial tests (n= 13)	12	92	13	100	13	100	13	100

§ Fraglich Due to reporting questionable results, the number of true results has been reduced.

Comments:

1. The following tests are listed under "Other commercial tests": Altona diagnostics FlexStar MP & CP & LP PCR Detection Mix 1.5 (1x), DNA-TECHNOLOGY L. pneumophila real-time PCR Detection Kit (1x), ELITechGroup Respiratory Bacterial ELITe MGB Panel (1x), ELITechGroup Respiratory Bacterial PLUS ELITe MGB Panel (2x), MIKROGEN alphaCube Legionella (1x), PathoFinder RespiFinder 2Smart (1x), Progenie RealCycler L. pneumophila (LEGI-UX) (1x), Roche cobas 6800 (1x), Roche UC-TIB-Respi-BAC-3 (1x) and Vitassay qPCR Primary Atypical Pneumonia (1x).
2. Only Legionella spp. detection was performed by one laboratory.