

PCR-/NAT *Legionella pneumophila* (RV 536) Mai 2015



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	Erwartet / expected		Probenzusammensetzung / Sample composition
1515361	+	61	<i>Legionella pneumophila</i> SG2 (~ 1x10 ³ CFU/mL)
1515362	++	61	<i>Legionella pneumophila</i> SG2 (~ 1x10 ⁴ CFU/mL)
1515363	+++	61	<i>Legionella pneumophila</i> SG2 (~ 1x10 ⁵ CFU/mL)
1515364	Ø	62	<i>Escherichia coli</i> K12

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n</i> = 105	Probennummer (Sample no.)				Inhibition
	1515361	1515362	1515363	1515364	
Positiv	37 ¹⁾	87	101	2	
Negativ	66 ¹⁾	17	4	103	
Fraglich Questionable	2	1	0	0	
n.d.	1	1	1	1	
nein <i>no</i>	104	104	104	104	
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 True positive results			NAT richtig negativ True negative results		
	Absolut Absolute	Relativ Relative	%	Absolut Absolute	Relativ Relative	%
LightMix Legionella [25] (n = 8)	19	19 / 23 §	83	8	8 / 8	100
GeneProof <i>L.pneumophila</i> [26] (n = 7)	16	16 / 21	76	7	7 / 7	100
Other commercial tests [27] (n= 46)	95	95 / 136 §	70	44	44 / 46	96
<i>In house</i> PCR assay [28] (n= 45)	99	99 / 135	73	45	45 / 45	100
Andere / k.A. / other [29] (n= 1)	2	2 / 3	67	1	1 / 1	100

§ Due to reporting questionable results, the number of true results (denominator in the „relative“ column) has been reduced.

* Durch Mehrfachnennung oder fehlende Angabe kann die absolute Zahl der Ergebnisse (Tab. 2) von der Anzahl der Teilnehmer abweichen.

Due to reporting results of multiple assay systems or missing specifications, the effective numbers are not correlating with the number of participants

Comments: ¹⁾ As sample #1515361 contained a low number of *Legionella pneumophila* target organisms, negative PCR results were not rated “false negative”, but the participants may consider to improve the analytical sensitivity of corresponding PCR assays.