

**PCR-/NAT *Legionella pneumophila*
 (RV 536) November 2017**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1725361	+	61	<i>Legionella pneumophila</i> SG2 (~ 5x10 ³ CFU/mL)
1725362	+++	61	<i>Legionella pneumophila</i> SG2 (~ 5x10 ⁵ CFU/mL)
1725363	Ø	62	<i>Legionella londiniensis</i> (~ 5x10 ⁴ CFU/mL)
1725364	Ø	62	<i>Escherichia coli</i> K12

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

<i>n = 98</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1725361	1725362	1725363	1725364		1725361	1725362	1725363	1725364
Befund Result									
Positiv	54 ¹⁾	97	1	1	n.d.	1	1	1	1
Negativ	41	1	97	97	nein no	97	97	97	97
Fraglich Questionable	3	0	0	0	ja yes	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>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
LightMix Legionella [20] (n = 11)	17	17 / 22	77	22	22 / 22	100
GeneProof <i>L.pneumophila</i> [21] (n = 2)	3	3 / 4	75	4	4 / 4	100
r-Biopharm RIDAGENE [22] (n = 4)	5	5 / 8	63	8	8 / 8	100
Other commercial tests [27] (n= 41)	61	61 / 80 [§]	76	81	81 / 82	99
<i>In house</i> PCR assay [28] (n= 40)	67	67/ 79 [§]	85	79	79 / 80	99
Andere/ k.A. / other [29] (n = 3)	4	4 / 6	67	6	6 / 6	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 #1725361 contained a low number of *Legionella pneumoniae* target organisms, negative PCR results were not rated “false negative” in this EQAS distribution.