

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



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1715361	+++	61	<i>Legionella pneumophila</i> SG2 (~ 5x10 ⁴ CFU/mL)
1715362	∅	62	<i>Escherichia coli</i> K12
1715363	+	61	<i>Legionella pneumophila</i> SG2 (~ 5x10 ² CFU/mL)
1715364	++	61	<i>Legionella pneumophila</i> SG2 (~ 5x10 ³ CFU/mL)

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

<i>n = 119</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1715361	1715362	1715363	1715364		1715361	1715362	1715363	1715364
Befund <i>Result</i>									
Positiv	119	2	62	106	n.d.	1	1	1	1
Negativ	0	117	55 ¹⁾	12	nein <i>no</i>	118	118	118	118
Fraglich <i>Questionable</i>	0	0	2	1	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>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
LightMix Legionella [20] (n = 11)	27	27 / 33	82	11	11 / 11	100
GeneProof <i>L.pneumophila</i> [21] (n = 5)	15	15 / 15	100	5	5 / 5	100
r-Biopharm RIDAGENE [22] (n = 6)	14	14 / 18	78	6	6 / 6	100
Other commercial tests [27] (n= 56)	134	134/ 166 [§]	81	55	55 / 56	98
<i>In house</i> PCR assay [28] (n= 42)	101	101/ 125 [§]	81	41	41 / 42	98
Anderer/ k.A. / other [29] (n = 2)	5	5 / 6	83	2	2 / 2	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 #1715363 contained a low number of *Legionella pneumoniae* target organisms, negative PCR results were not rated “false negative” in this EQAS distribution.