

**PCR-/NAT *Legionella pneumophila*
 (RV 536) November 2014**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1425361	++	61	<i>Legionella pneumophila</i> SG5 (~ 1x10 ⁵ CFU/mL)
1425362	∅	62	<i>Legionella dumoffii</i> (~ 1x10 ⁵ CFU/mL)
1425363	∅	62	<i>Escherichia coli</i> K12
1425364	+++	61	<i>Legionella pneumophila</i> SG5 (~ 1x10 ⁶ CFU/mL)

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

<i>n</i> = 97	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
<i>Befund Result</i>	1425361	1425362	1425363	1425364		1425361	1425362	1425363	1425364
Positiv	96	8	0	96	n.d.	1	1	1	1
Negativ	0	88	97	0	nein <i>no</i>	96	96	96	96
Fraglich <i>Questionable</i>	1 ¹⁾	1 ¹⁾	0	1 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 <i>Legionella</i> [25] (n = 7)	14	14 / 14	100	14	14 / 14	100
GeneProof <i>L.pneumophila</i> [26] (n = 5)	10	10 / 10	100	10	10 / 10	100
Other commercial tests [27] (n= 35)	68	68 / 68 §	100	66	66 / 69 §	96
<i>In house</i> PCR assay [28] (n= 50)	100	100 / 100	100	95	95 / 100	95
Andere / k.A. / other [29] (n= 1)	2	2 / 2	100	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⁾ All three questionable results corresponded to one participant which reported the use of *Legionella* spp. detection.