

**PCR-/NAT *Legionella pneumophila*
 (RV 536) Mai 2012**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1215361	+++	61	<i>Legionella pneumophila</i> SG3 (~ 1x10 ⁵ CFU/mL)
1215362	∅	62	<i>Escherichia coli</i> K12
1215363	+	61	<i>Legionella pneumophila</i> SG3 (~ 1x10 ³ CFU/mL)
1215364	++	61	<i>Legionella pneumophila</i> SG3 (~ 1x10 ⁴ CFU/mL)

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

<i>n = 90</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1215361	1215362	1215363	1215364		1215361	1215362	1215363	1215364
Befund <i>Result</i>									
Positiv	87	1	65	86	n.d.	1	1	1	1
Negativ	3	89	24 ¹⁾	4	nein <i>no</i>	89	89	89	89
Fraglich <i>Questionable</i>	0	0	1	0	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>	%
Other commercial tests [27] (n = 39)	102	102 / 117	87	39	39 / 39	100
In house PCR assay [28] (n = 49)	133	133 / 147	90	48	48 / 49	98
Andere / k.A. / other [29] (n = 3)	6	6 / 8 [§]	75	3	3 / 3	100

* 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.

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

Comments: ¹⁾ As sample #1215363 contained a very low number of *Legionella pneumophila* target organisms, negative PCR results were not rated as "false negative", but the participants may consider to improve the analytical sensitivity of their corresponding PCR assays.