

**PCR-/NAT *Legionella pneumophila*
 (RV 536) November 2011**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1125361	∅	62	<i>Legionella gormanii</i> (~ 1x10 ⁵ CFU/mL)
1125362	∅	62	<i>Legionella micdadei</i> (~ 1x10 ⁴ CFU/mL)
1125363	+++	61	<i>Legionella pneumophila</i> SG1 (~ 1x10 ⁶ CFU/mL)
1125364	∅	62	<i>Escherichia coli</i> K12

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

<i>n = 84</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>					
<i>Befund Result</i>	1125361	1125362	1125363	1125364	1125361	1125362	1125363	1125364		
Positiv	9 ¹⁾	9 ¹⁾	83	3	n.d.	1	1	1	1	
Negativ	75	75	1	81	nein no	83	83	83	83	
Fraglich Questionable	0	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>	%
BD ProbeTec Legionella [26] (n = 1)	1	1 / 1	100	3	3 / 3	100
Other commercial tests [27] (n = 32)	32	32 / 32	100	93	93 / 96	97
In house PCR assay [28] (n = 49)	48	48 / 49	98	130	130 / 147	88
Andere / k.A. / other [29] (n = 3)	3	3 / 3	100	8	8 / 9	89

* 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⁾ Cross-reactions with non-pneumophila *Legionella* species were (by way of exception) tolerated in the course of issuing the certificates. However, the participant who reported also a false-negative result for the *L. pneumophila* sample # 1125363, will not receive a certificate in the current round of EQAS.

