

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



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1115361	(+)	61	<i>Legionella pneumophila</i> SG1 (~ 1x10 ³ CFU/mL)
1115362	+	61	<i>Legionella pneumophila</i> SG1 (~ 1x10 ⁴ CFU/mL)
1115363	∅	62	<i>Escherichia coli</i> K12
1115364	++	61	<i>Legionella pneumophila</i> SG1 (~ 1x10 ⁵ CFU/mL)

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

<i>n = 94</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1115361	1115362	1115363	1115364		1115361	1115362	1115363	1115364
Befund <i>Result</i>									
Positiv	53	78	0	93	n.d.	1	1	1	1
Negativ	41	15	94	1	nein <i>no</i>	93	93	93	93
Fraglich <i>Questionable</i>	0	1	0	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>	%
BD ProbeTec Legionella [26] (n = 1)	2	2 / 3	67	1	1 / 1	100
Other commercial tests [27] (n = 38)	82	82 / 114	72	38	38 / 38	100
In house PCR assay [28] (n = 56)	142	142 / 167 [§]	85	56	56 / 56	100
Andere / k.A. / other [29] (n = 1)	2	2 / 3	67	1	1 / 1	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 # 1115361 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.