

**PCR-/NAT *Legionella pneumophila*
 (RV 536) November 2018**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1825361	+++	61	<i>Legionella pneumophila</i> SG2 (~ 5x10 ⁵ CFU/mL)
1825362	∅	62	<i>Escherichia coli</i> K12
1825363	∅	62	<i>Escherichia coli</i> K12
1825364	+	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 = 120</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1825361	1825362	1825363	1825364		1825361	1825362	1825363	1825364
Befund <i>Result</i>									
Positiv	120	2	1	85	n.d.	1	1	1	1
Negativ	0	118	119	35 ¹⁾	nein <i>no</i>	119	119	119	119
Fraglich <i>Questionable</i>	0	0	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>	%
LightMix Legionella [20] (n = 9)	14	14 / 18	78	18	18 / 18	100
AID CAP Bacteria [21] (n = 6)	9	9 / 12	75	12	12 / 12	100
r-Biopharm RIDAGENE [22] (n = 9)	13	13 / 18	72	17	17 / 18	94
Other commercial tests [27] (n= 57)	100	100 / 114	88	114	114 / 114	100
<i>In house</i> PCR assay [28] (n= 37)	66	66 / 74	89	72	72 / 74	97
Andere/ k.A. / other [29] (n = 3)	5	5 / 6	83	6	6 / 6	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

Comments: ¹⁾ As sample #1825364 contained a low number of *Legionella pneumophila* target organisms, negative PCR results were not rated "false negative" in this EQAS distribution.