

**PCR-/NAT *Legionella pneumophila***  
**(RV 536) November 2019**



**Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.**

*Sample composition and expected results.*

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1925361	++	61	<i>Legionella pneumophila</i> SG1 (~ 5x10 <sup>4</sup> CFU/mL)
1925362	+	61	<i>Legionella pneumophila</i> SG1 (~ 5x10 <sup>3</sup> CFU/mL)
1925363	∅	62	<i>Escherichia coli</i> K12
1925364	+++	61	<i>Legionella pneumophila</i> SG1 (~ 5x10 <sup>5</sup> CFU/mL)

**Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.**

*Absolute numbers of reported individual results.*

<i>n = 114</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	<i>1925361</i>	<i>1925362</i>	<i>1925363</i>	<i>1925364</i>		<i>1925361</i>	<i>1925362</i>	<i>1925363</i>	<i>1925364</i>
<i>Befund Result</i>									
<b>Positiv</b>	111	92	2	112	n.d.	0	0	0	0
<b>Negativ</b>	3	20 <sup>1)</sup>	112	2	nein no	114	114	114	114
<b>Fraglich Questionable</b>	0	2 <sup>1)</sup>	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.*

<b>NAT-Methode</b> [Code] (total number *)	<b>NAT richtig positiv</b> <i>True positive results</i>						<b>NAT richtig negativ</b>	
	<b>1925361</b>		<b>1925362</b>		<b>1925364</b>		<b>1925363</b>	
	<i>Absolut Absolute</i>	<i>%</i>	<i>Absolut Absolute</i>	<i>%</i>	<i>Absolut Absolute</i>	<i>%</i>	<i>Absolut Absolute</i>	<i>%</i>
LightMix Legionella [20] (n = 9)	8	89	6	67	8	89	9	100
AID CAP Bacteria [21] (n = 3)	3	100	3	100	3	100	3	100
r-Biopharm RIDAGENE [22] (n = 7)	7	100	7	100	7	100	7	100
Other commercial tests [27] (n= 61)	60	98	48	81	60	98	60	98
<i>In house</i> PCR assay [28] (n = 34)	33	97	28	82	34	100	33	97

**Comments:** <sup>1)</sup> As sample #1925362 contained a low number of *Legionella pneumophila* target organisms, negative PCR results were not rated "false negative" in this EQAS distribution.