

**PCR-/NAT *Bordetella pertussis*  
(RV 532) November 2017**



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

*Sample composition and expected results.*

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1725321	++	61	<i>Bordetella pertussis</i> (~ 5x10 <sup>4</sup> CFU/mL)
1725322	Ø	62	<i>Bordetella parapertussis</i> (~ 5x10 <sup>5</sup> CFU/mL)
1725323	Ø	62	<i>Escherichia coli</i> K12
1725324	+	61	<i>Bordetella pertussis</i> (~ 5x10 <sup>3</sup> CFU/mL)

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

*Absolute numbers of reported individual results.*

<i>n</i> = 126	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1725321	1725322	1725323	1725324	1725321	1725322	1725323	1725324	
<b>Befund Result</b>									
<b>Positiv</b>	125	1	0	109	n.d.	3	3	3	3
<b>Negativ</b>	1	124	125	17 <sup>1)</sup>	nein no	123	123	123	123
<b>Fraglich Questionable</b>	0	1	1	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> <i>True negative results</i>		
	<b>Absolut</b> <i>Absolute</i>	<b>Relativ</b> <i>Relative</i>	<b>%</b>	<b>Absolut</b> <i>Absolute</i>	<b>Relativ</b> <i>Relative</i>	<b>%</b>
TIB Molbiol LightMix BP [20] (n = 11)	22	22 / 22	100	22	22 / 22	100
Diagenode <i>B.pertussis</i> [21] (n = 8)	15	15 / 16	94	16	16 / 16	100
GenoQuick <i>Bordetella</i> [22] (n = 3)	6	6 / 6	100	6	6 / 6	100
RIDAGENE <i>Bordetella</i> [23] (n = 18)	33	33 / 36	92	36	36 / 36	100
Other commercial tests [27] (n = 34)	63	63 / 68	93	67	67 / 67 <sup>§</sup>	100
<i>In house</i> PCR assay [28] (n = 48)	88	88 / 96	92	94	94 / 95 <sup>§</sup>	99
Andere / k.A. / other [29] (n = 5)	9	9 / 10	90	10	10 / 10	100

<sup>§</sup> Due to reporting questionable results, the number of true results (denominator in the „relative“ column) has been reduced.

\* **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 participant.*

**Comments:** <sup>1)</sup> As sample #1725324 contained a low number of *Bordetella pertussis* target organisms, negative PCR results were not rated “false negative” in this EQAS distribution.