

**PCR-/NAT *Bordetella pertussis***  
**(RV 532) Mai / Juni 2019**



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

*Sample composition and expected results.*

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1915321	Ø	62	<i>Bordetella parapertussis</i> (~ 1x10 <sup>5</sup> CFU/mL)
1915322	++	61	<i>Bordetella pertussis</i> (~ 1x10 <sup>4</sup> CFU/mL)
1915323	Ø	62	<i>Escherichia coli</i> K12
1915324	Ø	62	<i>Bordetella bronchiseptica</i> (~ 1x10 <sup>5</sup> CFU/mL)

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

*Absolute numbers of reported individual results.*

<i>n = 169</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	<i>1915321</i>	<i>1915322</i>	<i>1915323</i>	<i>1915324</i>	<i>1915321</i>	<i>1915322</i>	<i>1915323</i>	<i>1915324</i>	
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	2	165	3	3	n.d.	1	1	1	1
<b>Negativ</b>	167	3	166	166	nein <i>no</i>	168	168	168	168
<b>Fraglich</b> <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.*

<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 = 13)	13	13 / 13	100	39	39 / 39	100
Diagenode <i>B.pertussis</i> [21] (n = 7)	5	5 / 6 §	83	21	21 / 21	100
GeneProof <i>Bordetella</i> [22] (n = 7)	7	7 / 7	100	19	19 / 21	90
r-Biopharm RIDAGENE [23] (n = 22)	22	22 / 22	100	66	66 / 66	100
AID CAP Bacteria [24] (n = 2)	2	2 / 2	100	5	5 / 6	83
Other commercial tests [27] (n = 65)	64	64 / 65	98	193	193 / 195	99
In house PCR assay [28] (n = 50)	49	49 / 50	98	147	147 / 150	98
Andere / k.A. / other [29] (n = 6)	6	6 / 6	100	18	18 / 18	100

§ 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 participants*