

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



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1925321	+++	61	<i>Bordetella pertussis</i> (~ 5x10 ⁵ CFU/mL)
1925322	∅	62	<i>Escherichia coli</i> K12
1925323	+	61	<i>Bordetella pertussis</i> (~ 5x10 ³ CFU/mL)
1925324	++	61	<i>Bordetella pertussis</i> (~ 5x10 ⁴ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 155</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1925321	1925322	1925323	1925324	1925321	1925322	1925323	1925324	
Befund <i>Result</i>									
Positiv	155	0	133	153	n.d.	1	1	1	1
Negativ	0	155	21 ¹⁾	2	nein <i>no</i>	154	154	154	154
Fraglich <i>Questionable</i>	0	0	1 ¹⁾	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	
	1925321		1925323		1925324		1925322	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
TIB Molbiol LightMix BP [20] (n = 11)	11	100	9	82	11	100	11	100
Diagenode <i>B.pertussis</i> [21] (n = 5)	5	100	4	80	4	80	5	100
GeneProof <i>Bordetella</i> [22] (n = 7)	7	100	5	71	7	100	7	100
r-Biopharm RIDAGENE [23] (n = 27)	27	100	22	85	27	100	27	100
AID CAP Bacteria [24] (n = 4)	4	100	4	100	4	100	4	100
Other commercial tests [27] (n = 63)	63	100	55	87	62	98	63	100
<i>In house</i> PCR assay [28] (n = 38)	38	100	34	89	38	100	38	100

Comments: ¹⁾ As sample #1925323 contained a low number of *Bordetella pertussis* target organisms, negative PCR results were not rated "false negative" in this EQAS distribution.