

**PCR-/NAT *Bordetella pertussis*
 (RV 532) Mai 2016**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1615321	++	61	<i>Bordetella pertussis</i> (~ 1x10 ⁵ CFU/mL)
1615322	∅	62	<i>Bordetella holmesii</i> (IS481-pos.) (~ 1x10 ⁶ CFU/mL)
1615323	∅	62	<i>Escherichia coli</i> K12
1615324	++	61	<i>Bordetella pertussis</i> (~ 1x10 ⁵ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 151</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	<i>1615321</i>	<i>1615322</i>	<i>1615323</i>	<i>1615324</i>		<i>1615321</i>	<i>1615322</i>	<i>1615323</i>	<i>1615324</i>
<i>Befund Result</i>									
Positiv	151	100	1	149	n.d.	2	2	2	2
Negativ	0	50	150	2	nein no	150	150	150	150
Fraglich Questionable	0	1	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.

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>	%
TIB Molbiol LightMix BP [20] (n = 8)	16	16 / 16	100	8	8 / 16	50
Diagenode <i>B.pertussis</i> [21] (n = 7)	14	14 / 14	100	7	7 / 14	50
GenoQuick <i>Bordetella</i> [22] (n = 8)	16	16 / 16	100	8	8 / 16	50
RIDAGENE <i>Bordetella</i> [23] (n = 20)	40	40 / 40	100	38	38 / 40	95
Other commercial tests [27] (n = 5)	99	99 / 100	99	68	68 / 100	68
<i>In house</i> PCR assay [28] (n = 56)	111	111 / 112	99	67	67 / 111 §	60
<i>Andere / k.A. / other</i> [29] (n = 2)	4	4 / 4	100	4	4 / 4	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