

**PCR-/NAT *Bordetella pertussis*
 (RV 532) November 2014**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.
Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1425321	∅	62	<i>Bordetella holmesii</i> (IS481-pos.) (~ 1x10 ⁵ CFU/mL)
1425322	∅	62	<i>Escherichia coli</i> K12
1425323	∅	62	<i>Bordetella parapertussis</i> (~ 1x10 ⁵ CFU/mL)
1425324	++	61	<i>Bordetella pertussis</i> (~ 1x10 ⁵ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.
Absolute numbers of reported individual results.

<i>n = 137</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1425321	1425322	1425323	1425324	1425321	1425322	1425323	1425324	
Befund <i>Result</i>									
Positiv	95	0	4	137	n.d.	3	3	3	3
Negativ	40	137	133	0	nein <i>no</i>	134	134	134	134
Fraglich <i>Questionable</i>	2	0	0	0	ja <i>yes</i>	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwenden 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 = 12)	12	12 / 12	100	25	25 / 36	69
Diagenode <i>B.pertussis</i> [21] (n = 9)	9	9 / 9	100	18	18 / 27	67
GenoQuick <i>Bordetella</i> [22] (n = 8)	8	8 / 8	100	17	17 / 24	71
RIDAGENE <i>Bordetella</i> [23] (n = 14)	14	14 / 14	100	41	41 / 42	98
Other commercial tests [27] (n = 34)	34	34 / 34	100	80	80 / 102	78
<i>In house</i> PCR assay [28] (n = 60)	60	60 / 60	100	131	131 / 178 [§]	74
Andere / k.A. / other [29] (n = 2)	2	2 / 2	100	4	4 / 6	67

* 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

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