

PCR-/NAT *Bordetella pertussis*
(RV 532) November 2011



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1125321	∅	62	<i>Bordetella parapertussis</i> (~ 1x10 ⁵ CFU/mL)
1125322	∅	62	<i>Bordetella holmesii</i> (~ 1x10 ⁵ CFU/mL)
1125323	∅	62	<i>Bordetella bronchiseptica</i>
1125324	+++	61	<i>Bordetella pertussis</i> ATCC 12742 (~ 1x10 ⁶ CFU/mL)

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

<i>n = 115</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1125321	1125322	1125323	1125324	1125321	1125322	1125323	1125324	
Befund <i>Result</i>									
Positiv	9	105 ¹⁾	3	114	n.d.	2	2	2	2
Negativ	106	9	111	1	nein <i>no</i>	113	113	112	113
Fraglich <i>Questionable</i>	0	1	1	0	ja <i>yes</i>	0	0	1	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>	%
Other commercial tests [27] (n = 42)	42	42 / 42	100	80	80 / 125 [§]	64
In house PCR assay [28] (n = 69)	69	69 / 69	100	142	142 / 207	69
Andere / k.A. / other [29] (n = 4)	4	4 / 4	100	6	6 / 12	50

[§] Due to reporting questionable results, the number of true results (denominator in the "relative" column) have been reduced.

Comments: ¹⁾ Due to the well-known cross-reaction of *B. holmesii* in IS 481-specific PCR assays for *B. pertussis*, positive PCR results with sample # 1125322 were not rated as false-positive.