

PCR-/NAT *Bordetella pertussis* (RV 532) November 2010



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

Gruppe A	Erwartet / expected		Probenzusammensetzung / Sample composition
1025321	∅	62	<i>Bordetella bronchiseptica</i> (~ 1x10 ³ CFU/mL)
1025322	++	61	<i>Bordetella pertussis</i> ATCC 12742 (~ 1x10 ⁴ CFU/mL)
1025323	∅	62	<i>Escherichia coli</i> K12
1025324	∅	62	<i>Bordetella parapertussis</i> (~ 1x10 ⁴ CFU/mL)

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

n = 103	Probennummer (Sample no.)					Inhibition			
	1025321	1025322	1025323	1025324		1025321	1025322	1025323	1025324
Befund <i>Result</i>									
Positiv	4	100	0	10	n.d.	2	2	2	2
Negativ	99	3	102	93	nein <i>no</i>	101	101	102	102
Fraglich <i>Questionable</i>	0	0	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 <i>True negative results</i>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
Roche LightCycler Kit [20] (n = 1)	1	1 / 1	100	3	3 / 3	100
Other commercial tests [27] (n = 32)	32	32 / 32	100	87	87 / 96	91
In house PCR assay [28] (n = 68)	65	65 / 68	96	198	198 / 203 [§]	98
Andere / k.A. / other [29] (n = 2)	2	2 / 2	100	6	6 / 6	100

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

Comments: ¹⁾ Ten of the 103 participants reported a false-positive result for sample # 1025324 (*B. parapertussis*). This could be due to a "simple" cross-contamination event and/or a cross-reactivity of the primer and probe sequences of the "*B. pertussis*-specific" PCR assays.