

**PCR-/NAT *Bordetella pertussis*
 (RV 532) Mai 2020**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2015321	+++	61	<i>Bordetella pertussis</i> (~ 1x10 ⁵ CFU/mL)
2015322	∅	62	<i>Escherichia coli</i> K12
2015323	++++	61	<i>Bordetella pertussis</i> (~ 1x10 ⁶ CFU/mL)
2015324	∅	62	<i>Escherichia coli</i> K12

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 153</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	<i>2015321</i>	<i>2015322</i>	<i>2015323</i>	<i>2015324</i>	<i>2015321</i>	<i>2015322</i>	<i>2015323</i>	<i>2015324</i>	
Befund <i>Result</i>									
Positiv	153	2	151	4	n.d.	0	0	0	0
Negativ	0	151	2	149	nein <i>no</i>	153	153	153	153
Fraglich <i>Questionable</i>	0	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>			
	2015321		2015323		2015322		2015324	
	<i>Absolut</i> <i>Absolute</i>	<i>%</i>	<i>Absolut</i> <i>Absolute</i>	<i>%</i>	<i>Absolut</i> <i>Absolute</i>	<i>%</i>	<i>Absolut</i> <i>Absolute</i>	<i>%</i>
AID CAP Bacteria (n = 6)	6	100	6	100	6	100	6	100
AmpliGnost B.pert./ B.parapert. (n = 4)	4	100	4	100	4	100	4	100
BioGX Bord. Speciation plus toxin (n = 4)	4	100	4	100	3	75	4	100
Diagenode B.pert. / B.parapert. (n = 5)	5	100	5	100	5	100	5	100
GeneProof B.pert. / B.parapert. (n = 8)	8	100	8	100	8	100	8	100
HAIN FluoroType Bordetella (n = 9)	9	100	9	100	9	100	8	89
Seegene Allplex Resp. Panel 4 (n = 8)	8	100	8	100	8	100	8	100
LightMix B.pert. (n = 12)	12	100	12	100	12	100	12	100

RIDAGENE Bordetella (n = 21)	21	100	21	100	21	100	21	100
Other commercial tests (n = 39)	39	100	37	95	39	100	38	97
<i>In house</i> PCR assay (n = 37)	37	100	37	100	36	97	35	95