

**PCR-/NAT *Bordetella pertussis***  
**(RV 532) Mai 2021**



**Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.**

*Sample composition and expected results.*

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2115321	∅	62	<i>Escherichia coli</i> K12
2115322	++	61	<i>Bordetella pertussis</i> (~ 1x10 <sup>4</sup> CFU/mL)
2115323	+++	61	<i>Bordetella pertussis</i> (~ 1x10 <sup>5</sup> CFU/mL)
2115324	++++	61	<i>Bordetella pertussis</i> (~ 1x10 <sup>6</sup> CFU/mL)

**Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.**

*Absolute numbers of reported individual results.*

<i>n = 164</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	2115321	2115322	2115323	2115324	2115321	2115322	2115323	2115324	
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	0	153	162	164	n.d.	0	0	0	0
<b>Negativ</b>	164	10	2	0	nein <i>no</i>	164	164	164	164
<b>Fraglich</b> <i>Questionable</i>	0	1	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.*

<b>NAT-Methode</b> [Code] (total number *)	<b>NAT richtig positiv</b> <i>True positive results</i>						<b>NAT richtig negativ</b>	
	2115322		2115323		2115324		2115321	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
AID CAP Bacteria (n = 6)	6	100	6	100	6	100	6	100
ARGENE <i>Bordetella</i> R-GENE (n = 3)	3	100	3	100	3	100	3	100
Altona diag. RealStar <i>Bordetella</i> (n = 3)	3	100	3	100	3	100	3	100
AmpliGnost <i>B. pert.</i> / <i>B. parapert.</i> (n = 3)	3	100	3	100	3	100	3	100
HAIN FluoroType <i>Bordetella</i> (n = 8)	8	100	8	100	8	100	8	100
Diagenode <i>B. pert.</i> / <i>B. parapert.</i> (n = 3)	3	100	3	100	3	100	3	100
GeneProof <i>B. pert.</i> / <i>B. parapert.</i> (n = 8)	7	88	8	100	8	100	8	100

<b>Mikrogen ampliCube Resp. panel2 (n=10)</b>	<b>10</b>	<b>100</b>	<b>10</b>	<b>100</b>	<b>10</b>	<b>100</b>	<b>10</b>	<b>100</b>
<b>Solana Bordetella complete assay (n= 4)</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>
<b>Seegene Allplex Resp. Panel 4 (n = 13)</b>	<b>8</b>	<b>62</b>	<b>13</b>	<b>100</b>	<b>13</b>	<b>100</b>	<b>13</b>	<b>100</b>
<b>LightMix B. pert. (n = 9)</b>	<b>9</b>	<b>100</b>	<b>9</b>	<b>100</b>	<b>9</b>	<b>100</b>	<b>9</b>	<b>100</b>
<b>RIDAGENE Bordetella (n = 21)</b>	<b>19</b>	<b>90</b>	<b>20</b>	<b>95</b>	<b>21</b>	<b>100</b>	<b>21</b>	<b>100</b>
<b>Other commercial tests (n = 32)</b>	<b>31</b>	<b>97</b>	<b>32</b>	<b>100</b>	<b>32</b>	<b>100</b>	<b>32</b>	<b>100</b>
<b><i>In house</i> PCR assay (n = 41)</b>	<b>39</b>	<b>95</b>	<b>40</b>	<b>98</b>	<b>41</b>	<b>100</b>	<b>41</b>	<b>100</b>