

PCR-/NAT *Bordetella pertussis* (RV 532) Nov 2025



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
532A 251014 01	++	61	<i>Bordetella pertussis</i> (~ 5x10 ⁴ CFU/mL)
532A 251014 02	Ø	62	<i>Escherichia coli</i> K12
532A 251014 03	+++	61	<i>Bordetella pertussis</i> (~ 5x10 ⁵ CFU/mL)
532A 251014 04	+	61	<i>Bordetella pertussis</i> (~ 5x10 ³ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n</i> = 156		Proben Nr. (Sample no.)				Inhibition				
Befund Result		01	02	03	04		01	02	03	04
Positiv	153	1	153	125		n.d.	2	2	2	2
Negativ	3	155	3	31		nein no	154	154	154	154
Fraglich Questionable	0	0	0	0		ja yes	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 True positive results						NAT richtig negativ	
	01		03		04		02	
	Absolut Absolute	%	Absolut Absolute	%	Absolut Absolute	%	Absolut Absolute	%
AID CAP Bacteria (n = 3)	3	100	3	100	3	100	3	100
ARGENE Bordetella R-GENE (n = 2)	2	100	2	100	2	100	2	100
Altona diag. RealStar Bordetella (n = 3)	3	100	3	100	3	100	3	100
AmpliGnost B.pert. / B.parapert. (n = 1)	1	100	1	100	1	100	1	100
BioGX Bordet. Speciation plus toxin (n = 7)	7	100	7	100	5	71	7	100
FILMARRAY Resp. Panel 2.1 plus (n = 2)	2	100	2	100	0	0	2	100
CerTest VIASURE Bordetella RT PCR (n = 3)	3	100	3	100	1	33	3	100

DiaSorin Simplexa Bordetella Direct (n =12)	12	100	12	100	11	92	12	100
GeneProof B. pert. / B. parapert. (n = 6)	6	100	6	100	3	50	6	100
EasyScreen Pertussis & PCP Kit (n = 1)	1	100	1	100	1	100	1	100
HOLOGIC Panther Bordetella (n = 7)	7	100	7	100	7	100	7	100
ampliCube Resp. panel 2 (n = 17)	17	100	16	94	16	94	16	94
Meridian Alethia Pertussis (n = 2)	2	100	2	100	1	50	2	100
QIAstat-Dx Resp. Sars CoV-2 panel (n= 2)	2	100	2	100	2	100	2	100
Solana Bordetella complete assay (n = 4)	4	100	4	100	3	75	4	100
Seegene Allplex Pneumobacter (n = 10)	10	100	10	100	10	100	10	100
Seegene Allplex Resp. Panel 4 (n = 20)	17	85	18	90	5	25	20	100
TIB Molbiol LightMix B. pert. (n = 6)	6	100	6	100	6	100	6	100
r-Biopharm RIDAGENE Bordetella (n = 17)	17	100	17	100	15	88	17	100
In house PCR assay [28] (n = 16)	16	100	16	100	15	94	16	100
Other commercial tests (n = 15)	15	100	15	100	15	100	15	100

Comments:

1. The following tests are listed under "Other commercial tests": Altona diagnostics FlexStar Bordetella PCR Detection Mix (2x), Roche UC-TIB-Respi-BAC-1 (4x), AB Analytica RQ ResP-BORD (1x), Anatolia Geneworks Bosphore B. pertussis /parapertussis Genotyping Kit (1x), BioGX Bordetella pertussis /parapertussis (1x), r-Biopharm RIDAUNITY Bordetella (1x), DNA Technology B. pertussis real-time PCR Detection Kit (1x), PathoFinder RespiFinder 2Smart (1x), Bioeksen (1x) and Vitassay qPCR B. pertussis, B. parapert, B.holmesii Kit (1x).