

PCR-/NAT *Bordetella pertussis* (RV 532) Mai 2026



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
532 260519 01	++	61	<i>Bordetella pertussis</i> (~ 5x10 ⁴ CFU/mL)
532 260519 02	Ø	62	<i>Escherichia coli</i> K12
532 260519 03	+++	61	<i>Bordetella pertussis</i> (~ 5x10 ⁵ CFU/mL)
532 260519 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> = 159		Proben Nr. (Sample no.)				Inhibition				
Befund Result		01	02	03	04		01	02	03	04
Positiv		158	0	159	145	n.d.	2	2	2	2
Negativ		1	159	0	14	nein no	157	157	157	157
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
Altona RealStar Bordetella (n = 5)	5	100	5	100	5	100	5	100
AmpliGnost B.pert. / B.parapert. (n = 1)	1	100	1	100	1	100	1	100
Bio-Evolution B. pert. / B. parapert. (n = 2)	2	100	2	100	2	100	2	100
BioGX for BD MAX Bordetella Specification plus toxin (n = 6)	6	100	6	100	6	100	6	100
BioGX for BD MAX B. pert. / B. parapert. (n = 1)	1	100	1	100	1	100	1	100
FILMARRAY Resp. Panel 2.1 plus (n = 4)	4	100	4	100	1	25	4	100

VIASURE Bordetella Kit for BD MAX (n =2)	2	100	2	100	2	100	2	100
DiaSorin Simplexa Bordetella Direct (n =8)	8	100	8	100	8	100	8	100
GeneProof B. pert. / B. parapert. (n = 7)	7	100	7	100	7	100	7	100
EasyScreen Respiratory pathogen Kit (n=1)	1	100	1	100	1	100	1	100
Hologic Panther Bordetella (n = 6)	6	100	6	100	6	100	6	100
ampliCube Resp. panel 2 (n = 15)	15	100	15	100	15	100	15	100
Meridian Alethia Pertussis (n = 3)	3	100	3	100	3	100	3	100
QIAstat-Dx Resp. Sars CoV-2 panel (n= 3)	3	100	3	100	3	100	3	100
Solana Bordetella complete assay (n = 2)	2	100	2	100	2	100	2	100
Roche UC-TIB-Respi-BAC-1 (n = 5)	5	100	5	100	5	100	5	100
Seegene Allplex Pneumobacter (n = 13)	13	100	13	100	13	100	13	100
Seegene Allplex Resp. Panel 4 (n = 16)	15	94	16	100	6	38	16	100
TIB Molbiol LightMix B. pert. (n = 5)	5	100	5	100	5	100	5	100
RIDAGENE or RIDAUNITY Bord. (n = 16)	16	100	16	100	16	100	16	100
In house PCR assay [28] (n = 16)	16	100	16	100	16	100	16	100
Other commercial tests (n = 19)	19	100	19	100	18	95	19	100

Comments:

- The following tests are listed under "Other commercial tests": Altona diagnostics FlexStar Bordetella PCR Detection Mix (4x), Anatolia Geneworks Bosphore B. pertussis /parapertussis Genotyping Kit (1x), r-Biopharm BOSCH Vivalytic Bordetella (1x), DNA Technology B. pertussis real-time PCR Detection Kit (1x), ELITechGroup Bordetella ELITe MGB Kit (1x), Eurobio EurobioPlex Bordetella triplex (1x), Gerbion Diarella Bordetella (1x), Igenesis Respiratory Pathogens (1x), MIKROGEN alphaCube Bordetella (1x), Progenie RealCycler BORDETEL (1x), PathoFinder RespiFinder 2Smart (1x), Roche UC-TIB-Respi-BAC-4 (1x), Roche LIAT Bordetella Panel (1x), Roche UC-TIB-Bordetella (2x), and Sacace Biotechnologies B.pertussis/B.parapertussis/B.bronchiseptica Real TM (1x).