

PCR-/NAT *Pneumocystis jirovecii* (RV 560) Mai 2025



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
560A 250520 01	+	61	<i>Pneumocystis jirovecii</i> (~ 5x10 ³ organisms/mL)
560A 250520 02	+++	61	<i>Pneumocystis jirovecii</i> (~ 5x10 ⁵ organisms/mL)
560A 250520 03	++	61	<i>Pneumocystis jirovecii</i> (~ 5x10 ⁴ organisms/mL)
560A 250520 04	Ø	62	<i>Escherichia coli</i> K12

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n</i> = 154		Proben Nr. (Sample no.)				Inhibition				
Befund Result		01	02	03	04		01	02	03	04
Positiv		147	154	154	1	n.d.	0	0	0	0
Negativ		6	0	0	153	nein no	154	154	154	154
Fraglich Questionable		1	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		02		03		04	
	Absolut Absolute	%	Absolut Absolute	%	Absolut Absolute	%	Absolut Absolute	%
Ademtech MycoGENIE p.jirovecii (n = 2)	2	100	2	100	2	100	2	100
Altona RealStar P. jirovecii (n = 21)	21	100	21	100	21	100	21	100
Amplex eazypex P jirovecii (n = 9)	7	78	9	100	9	100	8	89
AmpliGnost P. jirovecii (n = 6)	6	100	6	100	6	100	6	100
AusDiagnostics Resp. Pathogens 24-well (n = 1)	1	100	1	100	1	100	1	100
BioGX P.jirovecii (n = 15)	14	93	15	100	15	100	15	100
Biolegio Atypical Pneumonia-1 (n = 1)	1	100	1	100	1	100	1	100
Bruker Fungiplex Pneumocystis IVD PCR (n = 3)	3	100	3	100	3	100	3	100

CerTest VIASURE P. jirovecii RT PCR (n = 6)	6	100	6	100	6	100	6	100
Pneumocystis ELITe MGB Kit (n = 8)	8	100	8	100	8	100	8	100
FTD P.jirovecii (n = 1)	1	100	1	100	1	100	1	100
PathoNostics PneumoGenius (n = 7)	7	100	7	100	7	100	7	100
Sacace P. jirovecii Real TM (n = 3)	2	67	3	100	3	100	3	100
TIB Molbiol LightMix P. jirovecii (n = 8)	8	100	8	100	8	100	8	100
r-Biopharm RIDAGENE P. jirovecii (n = 31)	29	94	31	100	31	100	31	100
In house PCR assay (n = 24)	23[§]	100	24	100	24	100	24	100
Other commercial tests (n = 8)	8	100	8	100	8	100	8	100

[§] Fraglich Due to reporting questionable results, the number of true results has been reduced.

Comments:

1. The following tests are listed under "Other commercial tests": MIKROGEN alphaCube P.jirovecii quant. (2x), Gerbion diarellaP.jirovecii quant real time PCR Kit (1x), eSens Pneumocystis jirovecii QL PCR kit (1x), AusDiagnostics Pneumonia 16-well (1x) and Bio-Evolution EUROIMMUN ITALIA P. jirovecii (1x).