

**PCR-/NAT *Pneumocystis jirovecii*
 (RV 560) November 2023**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.
Sample composition and expected results.

Proben Nr.	Erwartet / <i>expected</i>		Probenzusammensetzung / <i>Sample composition</i>
560 231024 01	∅	62	<i>Escherichia coli</i> K12
560 231024 02	∅	62	<i>Escherichia coli</i> K12
560 231024 03	++	61	<i>Pneumocystis jirovecii</i> (~ 1x10 ⁴ organisms/mL)
560 231024 04	+++	61	<i>Pneumocystis jirovecii</i> (~ 5x10 ⁴ organisms/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.
Absolute numbers of reported individual results.

<i>n</i> = 140	Proben Nr. (<i>Sample no.</i>)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	1	0	136	136	n.d.	0	0	0	0
Negativ	139	140	4	4	nein <i>no</i>	140	140	140	140
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 Anwendern 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>			
	03		04		01		02	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Altona RealStar P. jirovecii (n= 16)	16	100	16	100	16	100	16	100
Amplex eazyplex P jirovecii (n= 7)	6	86	5	71	7	100	7	100
AmpliGnost P. jirovecii (n= 6)	6	100	6	100	6	100	6	100
AmpliSens P.jirovecii FRT (n= 1)	1	100	1	100	1	100	1	100
BioGX P.jirovecii (n= 13)	13	100	13	100	13	100	13	100
Biologio Atypical Pneumonia-1 (n= 2)	1	50	2	100	2	100	2	100
FTD P.jirovecii (n= 2)	2	100	2	100	2	100	2	100
PathoNostics PneumoGenius (n= 2)	2	100	2	100	2	100	2	100

Sacace P. jirovecii Real TM (n= 3)	3	100	3	100	3	100	3	100
LightMix P. jirovecii (n= 10)	10	100	10	100	10	100	10	100
VIASURE P.jirovecii Real Time PCR (n= 9)	9	100	9	100	9	100	9	100
r-Biopharm RIDAGENE P. jirovecii (n= 29)	28	97	28	97	28	97	29	100
In house PCR assay (n = 23)	22	96	22	96	23	100	23	100
Other commercial tests (n = 17)	17	100	17	100	17	100	17	100

Comments:

1. The following tests are listed under "Other commercial tests": ELITechGroup Pneumocystis ELITE MGB Kit (5x), Bruker Fungiplex Pneumocystis IVD PCR (3x), AusDiagnostics Pneumonia 16-well (1x), Gerbion diarellaP.jirovecii quant real time PCR Kit (1x), Mikrogen alphacube P.jirovecii quant. (1x), Bio-Evolution (1x), Genesig RT-PCR P. jirovecii (1x), DiaSorin (1x), Vitassay qPCR Pneumocystis jirovecii (1x), Genetic Signatures EasyScreen Extended Respiratory Pathogen Detection Panels (1x) and Progenie Molecular RealCycler PJIR (1x).