

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



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

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
560 230523 01	+++	61	<i>Pneumocystis jirovecii</i> (~ 1x10 <sup>5</sup> organisms/mL)
560 230523 02	+	61	<i>Pneumocystis jirovecii</i> (~ 5x10 <sup>3</sup> organisms/mL)
560 230523 03	∅	62	<i>Escherichia coli</i> K12
560 230523 04	++	61	<i>Pneumocystis jirovecii</i> (~ 1x10 <sup>4</sup> organisms/mL)

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

n = 142	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	139	114	3	136	n.d.	0	0	0	0
<b>Negativ</b>	2	27	139	6	nein <i>no</i>	0	0	0	0
<b>Fraglich</b> <i>Questionable</i>	1	1	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	
	01		02		04		03	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Ademtech MycoGENIE p.jirovecii (n=1)	1	100	1	100	1	100	1	100
Altona RealStar P. jirovecii (n=20)	20	100	20	100	20	100	20	100
Amplex eazyplex P jirovecii (n=8)	7	88	4	50	8	100	8	100
AmpliGnost P. jirovecii (n=6)	6	100	6	100	6	100	6	100
AmpliSens P.jirovecii FRT (n=2)	2	100	2	100	2	100	2	100
BioGX P.jirovecii (n=11)	11	100	5	45	11	100	11	100
Biolegio Atypical Pneumonia-1 (n=2)	2	100	1	50	1	50	2	100
FTD P.jirovecii (n=2)	2	100	2	100	2	100	2	100
PathoNostics PneumoGenius (n=5)	5	100	5	100	5	100	5	100

<b>Sacace P. jirovecii Real TM (n=2)</b>	<b>1</b>	<b>50</b>	<b>1</b>	<b>50</b>	<b>1</b>	<b>50</b>	<b>1</b>	<b>50</b>
<b>LightMix P. jirovecii (n=10)</b>	<b>10</b>	<b>100</b>	<b>9</b>	<b>90</b>	<b>9</b>	<b>90</b>	<b>9</b>	<b>90</b>
<b>VIASURE P.jirovecii Real Time PCR (n=6)</b>	<b>6</b>	<b>100</b>	<b>5</b>	<b>83</b>	<b>6</b>	<b>100</b>	<b>6</b>	<b>100</b>
<b>r-Biopharm RIDAGENE P. jirovecii (n=31)</b>	<b>30<sup>§</sup></b>	<b>100</b>	<b>22</b>	<b>71</b>	<b>29</b>	<b>94</b>	<b>30</b>	<b>97</b>
<b>In house PCR assay (n = 25)</b>	<b>25</b>	<b>100</b>	<b>20<sup>§</sup></b>	<b>83</b>	<b>24</b>	<b>96</b>	<b>25</b>	<b>100</b>
<b>Other commercial tests (n = 11)</b>	<b>11</b>	<b>100</b>	<b>11</b>	<b>100</b>	<b>11</b>	<b>100</b>	<b>11</b>	<b>100</b>

<sup>§</sup> 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": ELITechGroup Pneumocystis ELITE MGB Kit (3x), Bruker Fungiplex Pneumocystis IVD PCR (3x), AusDiagnostics Pneumonia 16-well (1x), Bio-Evolution (1x), DiaSorin (1x), Genetic Signatures EasyScreen Extended Respiratory Pathogen Detection Panels (1x) and Progenie Molecular RealCycler PJIR (1x).