

PCR-/NAT *Pneumocystis jirovecii*
(RV 560) November 2021



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2125601	∅	62	<i>Escherichia coli</i> K12
2125602	∅	62	<i>Escherichia coli</i> K12
2125603	++	61	<i>Pneumocystis jirovecii</i> (~ 5x10 ⁴ organisms/mL)
2125604	+	61	<i>Pneumocystis jirovecii</i> (~ 5x10 ³ organisms/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 118</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	<i>2125601</i>	<i>2125602</i>	<i>2125603</i>	<i>2125604</i>	<i>2125601</i>	<i>2125602</i>	<i>2125603</i>	<i>2125604</i>	
<i>Befund Result</i>									
Positiv	4	0	95	79	n.d.	1	1	1	1
Negativ	114	118	18	35 ¹⁾	nein no	117	117	117	117
Fraglich <i>Questionable</i>	0	0	5	4 ¹⁾	ja yes	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwendern verschiedener Methoden.

NAT-Methode [Code] (total number *)	NAT richtig positiv <i>True positive results</i>				NAT richtig negativ <i>True negative results</i>			
	2125603		2125604		2125601		2125602	
	<i>Absolut Absolute</i>	<i>%</i>	<i>Absolut Absolute</i>	<i>%</i>	<i>Absolut Absolute</i>	<i>%</i>	<i>Absolut Absolute</i>	<i>%</i>
Altona RealStar P. jirovecii (n = 16)	15**	94	13*	81	16	100	16	100
Amplex eazyplex P. jirovecii (n = 4)	0	0	0	0	4	100	4	100
AmpliGnost P.jirovecii (n = 7)	7	100	7	100	7	100	7	100
AmpliSens P. jirovecii FRT (n = 2)	2	100	1	50	1	50	2	100
BioGX P. jirovecii (n = 7)	7	100	6	86	7	100	7	100
Biologio Atypical Pneumonia-1 (n = 2)	2	100	1	50	2	100	2	100
PathoNostics PneumoGenius (n = 2)	2	100	2	100	2	100	2	100
Sacace C. trachomatis Real TM (n = 2)	2	100	1	50	2	100	2	100

LightMix P.jirovecii (n = 13)	13	100	13	100	13	100	13	100
VIASURE P. jirovecii real time PCR (n = 1)	1	100	0	0	1	100	1	100
RIDAGENE P. jirovecii (n = 31)	18**	58	13**	42	31	100	31	100
In house PCR assay (n = 27)	22	81	19	70	24	89	27	100
Other commercial tests (n = 4)	4	100	3	75	4	100	4	100

** Questionable

Comments: ¹⁾ As sample # 2125604 contained a low number of *Pneumocystis jirovecii* target organisms, negative or questionable PCR results were not scored.

Unter "**Andere kommerzielle Testsysteme**" wurden diesmal folgende Testsysteme aufgeführt: ELITechGroup Pneumocystis ELITe MGB Kit (1x), Bruker Fungiplex Pneumocystis IVD PCR (1x) und Progenie RealCycler PJIR (1x).