

**PCR-/NAT *Pneumocystis jirovecii*
 (RV 560) November 2015**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1525601	+++	61	<i>Pneumocystis jirovecii</i> (~ 5x10 ⁵ organisms /mL)
1525602	+	61	<i>Pneumocystis jirovecii</i> (~ 5x10 ³ organisms /mL)
1525603	∅	62	<i>Escherichia coli</i> K12
1525604	++	61	<i>Pneumocystis jirovecii</i> (~ 5x10 ⁴ organisms /mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 91</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	<i>1525601</i>	<i>1525602</i>	<i>1525603</i>	<i>1525604</i>		<i>1525601</i>	<i>1525602</i>	<i>1525603</i>	<i>1525604</i>
<i>Befund Result</i>									
Positiv	90	58	0	86	n.d.	0	0	0	0
Negativ	0	29 ¹⁾	89	5	nein no	91	91	89	91
Fraglich Questionable	1	4 ¹⁾	2	0	ja yes	0	0	2	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>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
Myconostica MycAssay [20] (n =1)	3	3 / 3	100	1	1 / 1	100
TIB Molbiol LightMix PJ [21] (n =9)	21	21 / 27	78	9	9 / 9	100
r-Biopharm RIDAGENE PJ [22] (n =21)	49	49 / 60 [§]	82	21	21 / 21	100
AmpliGnost PJ PCR Kit [23] (n =9)	27	27 / 27	100	9	9 / 9	100
Sacace PJ RealTM [24] (n =2)	6	6 / 6	100	1	1 / 1 [§]	100
Commercial assay / kit [27] (n =10)	25	25 / 28 [§]	89	10	10 / 10	100
In house PCR assay [28] (n = 38)	100	100 / 114	88	38	38 / 38	100
Andere / k.A. / other [29] (n = 1)	3	3 / 3	100	0	0 / 0 [§]	0

[§] Due to reporting questionable results, the number of true results (denominator in the „relative“ column) has been reduced.

Comments: ¹⁾ As sample #1525602 contained a low number of *Pneumocystis jirovecii* target organisms, negative PCR results were not rated “false negative” in this EQAS distribution.