# PCR-/NAT *Pneumocystis jirovecii* (RV 560) Mai 2014

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

| | ***Erwartet* / *expected*** | | **Probenzusammensetzung** / *Sample composition* |
|---|---|---|---|
| **1415601** | **(+)** | **61** | ***Pneumocystis jirovecii* (~ 2x10$^3$ genome copies/mL)** |
| **1415602** | **++** | **61** | ***Pneumocystis jirovecii* (~ 1x10$^5$ genome copies/mL)** |
| **1415603** | **Ø** | **62** | ***Escherichia coli* K12** |
| **1415604** | **+** | **61** | ***Pneumocystis jirovecii* (~ 1x10$^4$ genome copies/mL)** |

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

| ***n = 84*** | **Probennummer** (Sample no.) | | | |
|---|---|---|---|---|
| **Befund** *Result* | **1415601** | **1415602** | **1415603** | **1415604** |
| **Positiv** | **75** | **82** | **1** | **81** |
| **Negativ** | **8**[1)] | **2** | **83** | **2** |
| **Fraglich** *Questionable* | **1**[1)] | **0** | **0** | **1** |

| | **Inhibition** | | | |
|---|---|---|---|---|
| | **1415601** | **1415602** | **1415603** | **1415604** |
| **n.d.** | **0** | **0** | **0** | **0** |
| **nein** *no* | **84** | **84** | **84** | **84** |
| **ja** *yes* | **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** *True positive results* | | | **NAT richtig negativ** *True negative results* | | |
|---|---|---|---|---|---|---|
| | **Absolut** *Absolute* | **Relativ** *Relative* | **%** | **Absolut** *Absolute* | **Relativ** *Relative* | **%** |
| **TIB Molbiol LightMix PJ [21] (n =14)** | **39** | 39 / 42 | **93** | **14** | 14 / 14 | **100** |
| **AmpliGnost PJ PCR Kit [22] (n =5)** | **15** | 15 / 15 | **100** | **5** | 5 / 5 | **100** |
| **Sacace PJ RealTM [23] (n =2)** | **6** | 6 / 6 | **100** | **2** | 2 / 2 | **100** |
| **Commercial assay / kit [27] (n =15)** | **45** | 45 / 45 | **100** | **15** | 15 / 15 | **100** |
| ***In house* PCR assay [28] (n = 44)** | **123** | 123 / 132 | **93** | **43** | 43 / 44 | **98** |
| **Andere / k.A. /** *other* **[29] (n = 4)** | **10** | 10 / 10 [§] | **100** | **4** | 4 / 4 | **100** |

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

***Comments:*** [1)] As sample #1415601 contained a low number of *Pneumocystis jirvecii* target organisms, negative PCR results were not rated "false negative", but the participants may consider to improve the analytical sensitivity of corresponding PCR assays.