

**PCR-/NAT *Mycoplasma pneumoniae*  
 (RV 541) November 2015**



**Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.**

*Sample composition and expected results.*

|         | <i>Erwartet / expected</i> |    | <i>Probenzusammensetzung / Sample composition</i>                 |
|---------|----------------------------|----|---|
| 1525411 | +++                        | 61 | <i>Mycoplasma pneumoniae</i> (~ 10 <sup>6</sup> genome copies/mL) |
| 1525412 | ∅                          | 62 | <i>Escherichia coli</i> K12                                       |
| 1525413 | ∅                          | 62 | <i>Mycoplasma salivarium</i> (~ 10 <sup>5</sup> genome copies/mL) |
| 1525414 | ∅                          | 62 | <i>Mycoplasma genitalium</i> (~ 10 <sup>6</sup> genome copies/mL) |

**Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.**

*Absolute numbers of reported individual results.*

| <i>n = 133</i>                         | <i>Probennummer (Sample no.)</i> |         |         |         | <i>Inhibition</i> |         |         |         |     |
|--|----------------------------------|---------|---------|---------|-------------------|---------|---------|---------|-----|
|  | 1525411                          | 1525412 | 1525413 | 1525414 | 1525411           | 1525412 | 1525413 | 1525414 |     |
| <b>Befund</b><br><i>Result</i>         |                                  |         |         |         |                   |         |         |         |     |
| <b>Positiv</b>                         | 132                              | 3       | 4       | 8       | n.d.              | 0       | 0       | 0       | 0   |
| <b>Negativ</b>                         | 1                                | 130     | 129     | 125     | nein<br><i>no</i> | 133     | 133     | 133     | 133 |
| <b>Fraglich</b><br><i>Questionable</i> | 0                                | 0       | 0       | 0       | ja<br><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.*

| <b>NAT-Methode</b><br>[Code] (total number *) | <b>NAT richtig positiv</b><br><i>True positive results</i> |                                   |          | <b>NAT richtig negativ</b><br><i>True negative results</i> |                                   |          |
|---|--|-----------------------------------|----------|--|-----------------------------------|----------|
|   | <b>Absolut</b><br><i>Absolute</i>                          | <b>Relativ</b><br><i>Relative</i> | <b>%</b> | <b>Absolut</b><br><i>Absolute</i>                          | <b>Relativ</b><br><i>Relative</i> | <b>%</b> |
| LightMix <i>M.pneumoniae</i> [20] (n =13)     | 13   | 13 / 13                           | 100      | 35   | 35 / 39                           | 90       |
| AmpliGnost MP PCR Kit [23] (n = 7)            | 7  | 7 / 7                             | 100      | 21   | 21 / 21                           | 100      |
| Diagenode MP/CP [24] (n = 10)                 | 10   | 10 / 10                           | 100      | 30   | 30 / 30                           | 100      |
| Commercial assay / kit [27] (n = 54)          | 54   | 54 / 54                           | 100      | 160  | 160 / 162                         | 99       |
| In house PCR assay [28] (n = 49)              | 48   | 48 / 49                           | 98       | 139  | 139 / 147                         | 95       |
| Andere / k.A. / other [29] (n = 2)            | 2  | 2 / 2                             | 100      | 5  | 5 / 6                             | 83       |

\* Durch Mehrfachnennung oder fehlende Angabe kann die absolute Zahl der Ergebnisse (Tab. 2) von der Anzahl der Teilnehmer abweichen.  
*Due to reporting results of multiple assay systems or missing specifications, the effective numbers are not correlating with the number of participants.*