

**PCR-/NAT *Salmonella enterica*  
 (RV 537) Juni 2017**



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

*Sample composition and expected results.*

|         | <i>Erwartet / expected</i> |    | <i>Probenzusammensetzung / Sample composition</i>                |
|---------|----------------------------|----|--|
| 1715371 | +++                        | 61 | <i>S. enterica</i> ser. typhimurium (~ 5x10 <sup>4</sup> CFU/mL) |
| 1715372 | +                          | 61 | <i>S. enterica</i> ser. typhimurium (~ 5x10 <sup>2</sup> CFU/mL) |
| 1715373 | ∅                          | 62 | <i>Escherichia coli</i> K12                                      |
| 1715374 | ++                         | 61 | <i>S. enterica</i> ser. typhimurium (~ 5x10 <sup>3</sup> CFU/mL) |

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

*Absolute numbers of reported individual results.*

| <i>n = 27</i>                          | <i>Probennummer (Sample no.)</i> |                 |         |         |                   | <i>Inhibition</i> |         |         |         |
|--|----------------------------------|-----------------|---------|---------|-------------------|-------------------|---------|---------|---------|
|  | 1715371                          | 1715372         | 1715373 | 1715374 |                   | 1715371           | 1715372 | 1715373 | 1715374 |
| <b>Befund</b><br><i>Result</i>         |                                  |                 |         |         |                   |                   |         |         |         |
| <b>Positiv</b>                         | 27                               | 21              | 2       | 25      | n.d.              | 0                 | 0       | 0       | 0       |
| <b>Negativ</b>                         | 0                                | 6 <sup>1)</sup> | 25      | 2       | nein<br><i>no</i> | 27                | 27      | 27      | 27      |
| <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> |
| Other commercial tests [27] (n = 18)          | 49   | 49 / 54                           | 91       | 17   | 17 / 18                           | 94       |
| <i>In house</i> PCR assay [28] (n = 8)        | 22   | 22 / 24                           | 92       | 7  | 7 / 8                             | 88       |
| Andere/ k.A. / other [29] (n = 1)             | 2  | 2 / 3                             | 67       | 1  | 1 / 1                             | 100      |

**Comments:** <sup>1)</sup> As sample #1715372 contained a low number of *Salmonella enterica* target organisms, negative PCR results were not rated "false negative" in this EQAS distribution.