

**PCR-/NAT *Listeria spp.*
 (RV 538) November 2018**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1825381	∅	62	<i>Escherichia coli</i> K12
1825382	+++	61 /71	<i>Listeria monocytogenes</i> (~ 5x10 ⁴ CFU/mL)
1825383	∅	62	<i>Escherichia coli</i> K12
1825384	+	61 /71	<i>Listeria monocytogenes</i> (~ 1x10 ³ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 40</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
<i>Befund Result</i>	1825381	1825382	1825383	1825384	1825381	1825382	1825383	1825384	
Positiv	0	40	0	35	n.d.	0	0	0	0
Negativ	40	0	40	4 ¹⁾	nein no	40	40	40	40
Fraglich Questionable	0	0	0	1 ¹⁾	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 <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>	%
TIB Molbiol LightMix LM [21] (n = 4)	8	8 / 8	100	8	8 / 8	100
Ingenetix BactoReal LM [22] (n = 4)	8	8 / 8	100	8	8 / 8	100
Other commercial tests [27] (n = 13)	22	22 / 25 §	88	26	26 / 26	100
<i>In house</i> PCR assay [28] (n = 20)	39	39 / 40	98	40	40 / 40	100

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

Comments: ¹⁾ As sample #1825384 contained a low number of *Listeria monocytogenes* target organisms, negative PCR results were not rated “false negative” in this EQAS distribution.