

**PCR-/NAT *Listeria spp.*
 (RV 538) Juni 2017**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1715381	+++	61 /71	<i>Listeria monocytogenes</i> (~ 5x10 ⁴ CFU/mL)
1715382	∅	62	<i>Escherichia coli</i> K12
1715383	++	61 /71	<i>Listeria monocytogenes</i> (~ 5x10 ³ CFU/mL)
1715384	+++	61 /72	<i>Listeria ivanovii</i> (~ 5x10 ⁴ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 46</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	1715381	1715382	1715383	1715384	1715381	1715382	1715383	1715384	
Befund <i>Result</i>									
Positiv	46	0	45	10	n.d.	0	0	0	0
Negativ	0	46	1	35 ¹⁾	nein <i>no</i>	46	46	46	46
Fraglich <i>Questionable</i>	0	0	0	1	ja <i>yes</i>	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwenden 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 = 2)	4	4 / 6	67	2	2 / 2	100
Ingenetix BactoReal LM [22] (n = 4)	9	9 / 12	75	4	4 / 4	100
Other commercial tests [27] (n = 12)	25	25 / 36	69	12	12 / 12	100
<i>In house</i> PCR assay [28] (n = 28)	64	64 / 83 §	77	28	28 / 28	100
Andere/ k.A. / other [29] (n = 1)	2	2 / 3	67	1	1 / 1	100

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

* 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

Comments: 1) Due to the predominant use of *L. monocytogenes*-specific PCR assays, negative PCR results with sample # 1715384 were not rated as “false negative”.