

**PCR-/NAT *Listeria* spp.
 (RV 538) November 2013**



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

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1325381	++	61 / 71	<i>Listeria monocytogenes</i> (~ 1x10 ⁵ CFU/mL)
1325382	+	61 / 71	<i>Listeria monocytogenes</i> (~ 1x10 ⁴ CFU/mL)
1325383	(+)	61 / 71	<i>Listeria monocytogenes</i> (~ 1x10 ³ CFU/mL)
1325384	∅	62	<i>Escherichia coli</i> K12

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

<i>n</i> = 25	Probennummer (Sample no.)				Inhibition				
Befund <i>Result</i>	1325381	1325382	1325383	1325384	1325381	1325382	1325383	1325384	
Positiv	23	23	23	1	n.d.	0	0	0	0
Negativ	2	2	2 ¹⁾	24	nein <i>no</i>	25	25	25	25
Fraglich <i>Questionable</i>	0	0	0	0	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)	6	6 / 6	100	2	2 / 2	100
Ingenetix BactoReal LM [22] (n = 2)	6	6 / 6	100	2	2 / 2	100
Other commercial tests [27] (n = 3)	6	6 / 9	67	3	3 / 3	100
<i>In house</i> PCR assay [28] (n = 18)	51	51 / 54	94	17	17 / 18	94

Comments: ¹⁾ As sample #1325383 contained a low number of *Listeria monocytogenes* target organisms, negative PCR results were not rated "false negative", but the participants may consider to improve the analytical sensitivity of corresponding PCR assays.