

**PCR-/NAT *Listeria* spp.
 (RV 538) Mai 2015**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1515381	++	61 /71	<i>Listeria monocytogenes</i> (~ 5x10 ⁵ CFU/mL)
1515382	∅	62	<i>Escherichia coli</i> K12
1515383	++	61 /72	<i>Listeria ivanovii</i> (~ 1x10 ⁵ CFU/mL)
1515384	+++	61 /71	<i>Listeria monocytogenes</i> (~ 5x10 ⁶ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 35</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	<i>1515381</i>	<i>1515382</i>	<i>1515383</i>	<i>1515384</i>	<i>1515381</i>	<i>1515382</i>	<i>1515383</i>	<i>1515384</i>	
Befund <i>Result</i>									
Positiv	35	0	1	35	n.d.	0	0	0	0
Negativ	0	35	34 ¹⁾	0	nein <i>no</i>	35	35	35	35
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>	%
AmpliGnost LM [20] (n = 2)	4	4 / 6	67	2	2 / 2	100
TIB Molbiol LightMix LM [21] (n = 1)	2	2 / 3	67	1	1 / 1	100
Ingenetix BactoReal LM [22] (n = 3)	6	6 / 9	67	3	3 / 3	100
Other commercial tests [27] (n = 6)	12	12 / 18	67	6	6 / 6	100
<i>In house</i> PCR assay [28] (n = 23)	47	47 / 69	68	23	23 / 23	100

Comments: ¹⁾ Due to the predominant use of *L. monocytogenes*-specific PCR assays, negative PCR results with sample # 1515383 were not rated as "false negative".