

**PCR-/NAT *Listeria spp.*
 (RV 538) November 2010**



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

Gruppe A	Erwartet / expected		Probenzusammensetzung / Sample composition
1025381	+	61 /71	<i>Listeria monocytogenes</i> (~ 1x10 ³ CFU/mL)
1025382	++	61 /74	<i>Listeria innocua</i> (~ 1x10 ⁴ CFU/mL)
1025383	(+)	61 /71	<i>Listeria monocytogenes</i> (~ 1x10 ² CFU/mL)
1025384	Ø	62	<i>Escherichia coli</i> K12

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

n = 24	Probennummer (Sample no.)					Inhibition			
	1025381	1025382	1025383	1025384		1025381	1025382	1025383	1025384
Befund <i>Result</i>									
Positiv	23	2	18	0	n.d.	0	0	0	0
Negativ	1	22 ¹⁾	6 ²⁾	24	nein <i>no</i>	24	24	24	24
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 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>	%
Other commercial tests [27] (n = 3)	6	6 / 9	67	3	3 / 3	100
<i>In house</i> PCR assay [28] (n = 21)	37	37 / 63	59	21	21 / 21	100

Comments: ¹⁾ Due to the predominant use of *L.monocytogenes*-specific PCR assays, negative PCR results with sample # 1025382 are not rated as "false negative".

²⁾ As sample # 1025383 contained a very low number of *L. monocytogenes* target organisms, negative PCR results were not rated as "false negative", but the participants may consider to improve the analytical sensitivity of their corresponding PCR assays.