

**PCR-/NAT *Listeria spp.*
 (RV 538) Mai 2020**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2015381	+++	61 /71	<i>Listeria monocytogenes</i> (~ 1x10 ⁵ CFU/mL)
2015382	∅	62	<i>Streptococcus pneumoniae</i> (~ 5x10 ⁴ CFU/mL)
2015383	∅	62	<i>Escherichia coli</i> K12
2015384	++	61 /72	<i>Listeria ivanovii</i> (~ 1x10 ⁴ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 42</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	2015381	2015382	2015383	2015384	2015381	2015382	2015383	2015384	
Befund <i>Result</i>									
Positiv	41	1	0	5	n.d.	0	0	0	0
Negativ	1	41	42	37 ¹⁾	nein <i>no</i>	42	42	42	42
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

NAT-Methode [Code] (total number *)	NAT richtig positiv <i>True positive results</i>				NAT richtig negativ <i>True negative results</i>			
	2015381		2015384		2015382		2015383	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
AmpliGnost <i>L.monocytogenes</i> (n = 2)	2	100	0	0	2	100	2	100
Ingenetix BactoReal <i>L.monocyt.</i> (n = 2)	2	100	0	0	2	100	2	100
LightMix <i>L.monocytogenes</i> (n = 6)	6	100	0	0	6	100	6	100
Other commercial tests (n = 12)	11	92	2	17	11	92	12	100
<i>In house</i> PCR assay (n = 20)	20	100	3	15	20	100	20	100

Comments: ¹⁾ Due to the predominant use of *L. monocytogenes*-specific PCR assays, negative PCR results with sample # 2015384 were not rated as "false negative".