

**PCR-/NAT *Listeria spp.*
 (RV 538) November 2023**



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

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
538 231024 01	∅	62	<i>Escherichia coli</i> K12
538 231024 02	+	61 /71	<i>Listeria monocytogenes</i> (~ 5x10 ³ CFU/mL)
538 231024 03	++	61 /72	<i>Listeria ivanovii</i> (~ 5x10 ⁴ CFU/mL)
538 231024 04	+++	61 /71	<i>Listeria monocytogenes</i> (~ 5x10 ⁵ CFU/mL)

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

<i>n</i> = 48	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	0	48	5	48	n.d.	0	0	0	0
Negativ	48	0	43	0	nein <i>no</i>	48	48	48	48
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	
	02		03		04		01	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Amplex eazyplex CSF direct (n = 5)	5	100	0	0	5	100	5	100
AmpliGnost <i>L. monocytogenes</i> (n = 1)	1	100	0	0	1	100	1	100
BioGX Bacterial Meningitis ELGBS (n=2)	2	100	2	100	2	100	2	100
BioFire FILMARRAY ME Panel (n = 3)	3	100	0	0	3	100	3	100
Ingenetix BactoReal <i>L. monocyt.</i> (n = 4)	4	100	0	0	4	100	4	100
Progenie RealCycler <i>L. monocyt.</i> (n = 1)	1	100	0	0	1	100	1	100
Sacace <i>L. monocyt.</i> Real-TM (n = 2)	2	100	0	0	2	100	2	100
Seegene Allplex Meningitis-B (n = 7)	7	100	0	0	7	100	7	100
LightMix <i>L. monocytogenes</i> (n = 4)	4	100	0	0	4	100	4	100

In house PCR assay (n = 16)	16	100	2	13	16	100	16	100
Other commercial tests (n = 3)	3	100	1	33	3	100	3	100

Comments:

1. The following tests are listed under "Other commercial tests": Hygiene Diagnostics foodproof Listeria genus Detection Kit (1x), Qiagen QiaStat-Dx ME Panel (1x) and CerTest VIASURE S. agalactiae, L. monocytogenes & E.coli Real Time PCR Detection Kit (1x).
2. Due to the predominant use of L. monocytogenes-specific PCR assays, negative PCR results with sample # 538 231024 03 were not rated as "false negative".