

Technical Datasheet

Analysis Name: Detection of Listeria species and Listeria monocytogenes by IQ-

Check®

Method Number: LI-00.708 WI

Scope of Application: Raw materials, environmental samples, line and finished

product samples.

Description: A qualitative Real-Time PCR (RTi-PCR) method, using the Bio-

Rad iQ-Check® Listeria spp. assay to produce next-day screening results. Samples incubate in a selective broth, then are treated with a DNA removal enzyme. A robotic liquid handling platform extracts target DNA, and RTi-PCR is performed in a CFX 96 detection system. Positive sample enrichments undergo a secondary L. monocytogenes screen using the Bio-Rad iQ-Check® Listeria monocytogenes II assay. Positive enrichments are confirmed on selective agar. Sample enrichments are cultured to isolate and identify Listeria to the species level (i.e. L. monocytogenes, L. innocua, L. ivanovii, L.

seeligeri, L. welshimeri, L. grayi).

Sample Weight

Required: 25 g, 125 g, or swab

Method Reference: Bio-Rad iQ-Check® Listeria monocytogenes II (LMII) AFNOR

Certificate No. BRD 07/10 – 04/05.

Bio-Rad iQ-Check Listeria spp (LIS) AFNOR Certificate No. BRD

07/13-05/07.

Validated against EN ISO 11290-1:2017 Part 1 per EN ISO

16140-2:2016.

LMII- AOAC® Performance Tested Certificate No. 010802,

January 28, 2021.

LIS- AOAC Performance Tested Certificate No. 090701,

October 30, 2023.

Analytical Platform: Real-Time PCR

Special Information: Some matrices may not be appropriate for RTi-PCR, leading to

a "Not Determinable" result. Matrices inhibitory to *Listeria* growth might require higher pre-enrichment dilutions.

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TDS-LI-00.708-BOTH 11/11/2024

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Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Listeria spp.		Per gram or Per swab	Detected/Not Detected	
Listeria monocytogenes		Per gram or Per swab	Detected/Not Detected	
Listeria Species Identified		N/A	Organism Name/No Typical Growth	
Listeria monocytogenes Confirmation Result		N/A	Isolate Obtained/No Isolate Obtained	

^{*}Note: Absence of *typical Listeria or L. mono*cytogenes growth does not automatically invalidate a positive PCR "Detected" result.

Listeria species and monocytogenes by iQ-Check : LI-00.708 : 8021834

	Result	Units
Listeria spp. Final	Detected	/25 g
L. spp Date Analyzed	10/30/2024	-
Listeria monocytogenes Final	Detected	/25 g
I mono Date Analyzed	10/30/2024	-

Listeria species and monocytogenes Confirmation: LI-00.708-LM-B: 8021834

Comment: When Listeria monocytogenes is not isolated from a sample, the confirmed presence of other Listeria

species does not indicate the absence of L. monocytogenes.

Listeria Species Identified Listeria innocua
Listeria monocytogenes Confirmation No Isolate
Result Obtained -

Listeria species and monocytogenes by iQ-Check: LI-00.708: 8021837

	Result	Units
Listeria spp. Final	Detected	/25 g
L. spp Date Analyzed	10/30/2024	-
Listeria monocytogenes Final	Not Detected	/25 g
L. mono Date Analyzed	10/30/2024	-

Listeria species and monocytogenes Confirmation : LI-00.708-LM-B : 8021837

Result Units
Listeria Species Identified Listeria innocua -

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