



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Detection of *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 monocytogenes* II 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 are streaked onto selective agar. Sample enrichments are cultured to isolate and identify *Listeria* to the species level.

Sample Weight

Required: 25 g, 125 g, or swab

Method Reference: Bio-Rad iQ-Check® *Listeria monocytogenes* II AFNOR Certificate No. BRD 07/10 – 04/05.

Validated against EN ISO 11290-1: 2017 Part 1 per EN ISO 16140-2:2016.

AOAC® Performance Tested Certificate No. 010802, January 28, 2021.

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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Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
<i>Listeria monocytogenes</i>		Per gram or Per swab	Detected/Not Detected	
<i>Listeria monocytogenes</i> Confirmation Result			Isolate Obtained/No Isolate Obtained	

*Note: Absence of typical *L. monocytogenes* growth does not automatically invalidate a positive PCR "Detected" result.

Listeria monocytogenes by iQ-Check : LI-00.708 : 8021830

	<u>Result</u>	<u>Units</u>
Listeria monocytogenes Final	Detected	/25 g
Date Analyzed	10/30/2024	-

Listeria mono. Confirmation : LI-00.708-LM-B : 8021830

	<u>Result</u>	<u>Units</u>
Listeria monocytogenes Confirmation Result	Isolate Obtained	-

Listeria monocytogenes by iQ-Check : LI-00.708 : 8021831

	<u>Result</u>	<u>Units</u>
Listeria monocytogenes Final	Detected	/25 g
Date Analyzed	10/30/2024	-

Listeria mono. Confirmation : LI-00.708-LM-B : 8021831

Comment: When *Listeria monocytogenes* is not isolated from a sample, it does not indicate the absence of *L. monocytogenes*.

	<u>Result</u>	<u>Units</u>
Listeria monocytogenes Confirmation Result	No Isolate Obtained	-