



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Detection of *Listeria species* 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 are confirmed on selective agar.

Sample Weight

Required: 25 g, 125 g, or swab

Method Reference: Bio-Rad iQ-Check *Listeria spp* AFNOR Certificate No. BRD 07/13-05/07.

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

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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Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
<i>Listeria spp</i>		Per gram or Per swab	Detected/Not Detected	
<i>Listeria spp.</i> Confirmation Result		N/A	Typical Growth Observed/No Typical Growth Observed	

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

Listeria species by IQ-Check : LI-00.708 : 8021827

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

Listeria species Confirmation : LI-00.708-LIS-B : 8021827

	<u>Result</u>	<u>Units</u>
Listeria spp. Confirmation Result	Typical Growth Observed	-