



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Detection of *Listeria* spp. by VIDAS® LPT

Method Number: LI-00.705-FS

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

Description: A qualitative next-day screening test for *Listeria* spp. The assay is performed on the Biomerieux VIDAS® automated detection system utilizing *Listeria* phage technology. Prior to the assay, samples are enriched in selective LPT broth to allow the recovery and growth of *Listeria*. When a positive result is obtained, sample enrichments are cultured to isolate and identify *Listeria* to the species level. This variation (LI-00.705-FS) will provide the identification of *Listeria* species (i.e. *L. monocytogenes*, *L. innocua*, *L. ivanovii*, *L. seeligeri*, *L. welshimeri*, *L. grayi*).

Sample Weight Required: 25 g, 100 g, and 125 g

Method Reference: This method is based on an alternative method that has been validated by AFNOR. AFNOR validation is according to ISO-16140:2003 protocol (certificate number BIO 12/23 - 05/12). The method also has AOAC Official Analysis status (method number 2013. 10).

ISO-11290-1:1996

Analytical Platform: Enzyme Linked Fluorescent Assay

Special Information: Matrices containing anti caking agents like sodium silico aluminate may require a higher enrichment dilution to overcome coagulation in the ELFA assay. Matrices that are inhibitory to the growth of *Listeria* when enriched at 1:10 are also subject to higher dilutions.

See below for an example of the final result reported for this variation.



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Sample Description: Listeria Qual (Sample #2452)			
Project #: 1703-0694	Sample #: 4876386	Condition Upon Receipt: INTACT	
Keydate/Lot#: Not Specified		Client Sample ID: Round 250	

Analysis : Method # : Aliquot Number

Listeria Full Speciation VIDAS LPT : LI-00.705 : 11508801

	<u>Result</u>	<u>Units</u>
Listeria Full Speciation Final	Detected	/25 g
Date Analyzed	03/15/2023	-

Listeria Biochemical Confirmation : ISO-11290-1.1996 : 11508801

	<u>Result</u>	<u>Units</u>
Date Analyzed	03/19/2023	-
Listeria Species	Listeria monocytogenes	-

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Listeria Full Speciation Final		Per g, mL, or swab	Detected / Not Detected	