

# METHOD SUMMARY – QWI-FM0006E



<b>Method Title</b>	Listeria Presence/Absence - ELISA		
<b>Document number</b>	<b>QWI-FM0006E</b>	<b>Date Issued</b>	30 <sup>th</sup> October 2018

<b>Method External References</b>	SOLUS Listeria ELISA Method Protocol validated by AFNOR SOL 37/02-06/13 AS 5013.24.1-2009
<b>Matrix</b>	As listed on NATA Scope.
<b>ALS Department</b>	<input type="checkbox"/> Pharmaceutical Chemistry <input type="checkbox"/> Water Microbiology <input checked="" type="checkbox"/> Food Microbiology <input type="checkbox"/> Pharmaceutical Microbiology <input type="checkbox"/> Food Chemistry
<b>Accreditation Status</b>	<input checked="" type="checkbox"/> NATA <input type="checkbox"/> NON-NATA <input type="checkbox"/> N/A
<b>Analysis technique</b>	<input type="checkbox"/> HPLC <input type="checkbox"/> GC <input type="checkbox"/> Wet Chemistry <input type="checkbox"/> Physical <input type="checkbox"/> Gravimetric <input type="checkbox"/> Qualitative <input type="checkbox"/> Pour Plate <input type="checkbox"/> Spread Plate <input type="checkbox"/> MPN <input type="checkbox"/> Filtration <input type="checkbox"/> Petrifilm <input type="checkbox"/> EHS <input checked="" type="checkbox"/> ELISA <input type="checkbox"/> VIDAS UP <input type="checkbox"/> VIDAS <input type="checkbox"/> Other (please specify): _____
<b>Method Scope</b>	<p>This method describes the procedure for the qualitative detection of <i>Listeria</i> spp in foods and environmental samples.</p> <p>This method is used for the testing of food and animal feeding stuffs including hygiene swabs using ELISA AFNOR validated protocols. This method differentiates between species of <i>Listeria</i> using the Microbact 12 L system or MALDI-TOF Biotyper as an alternative to the conventional biochemical identification outlined in the standard.</p>
<b>Method Principle</b>	<p>A test sample (minimum of 25 g of food or hygiene swab) is placed into a selective pre-enrichment (Half Fraser Broth) and incubated at 30 °C for 24 hours. The pre-enrichment is transferred to a selective enrichment broth prior to running the ELISA test.</p> <p>The presence of Listeria species is confirmed by subculture onto selective agars, and biochemical profiling using a commercial identification kit or using MALDI-TOF Biotyper.</p> <p>SOLUS is an enzyme immunoassay for use on the automated DS2 System for the detection of <i>Listeria</i> antigens using the Enzyme Linked Immuno-Sorbent Assay.</p>
<b>Reporting Unit</b>	Detected/Not Detected per weight of sample or swab tested (gram, mL or swab)
<b>LOR/LOQ</b>	Presence or Absence

<b>Minimum amount of sample required for analysis</b>	25 g	<b>Turnaround time</b>	2 days
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<b>Author:</b>	Document Controller	<b>Date:</b>	23 <sup>rd</sup> July 2019
<b>Authorised By:</b>	National Quality Manager	<b>Date:</b>	23 <sup>rd</sup> July 2019