

## **METHOD SUMMARY – QWI-FM0025**



<b>Method Title</b>	Pseudomonas spp – Enumeration - AS		
<b>Document number</b>	<b>QWI-FM0025</b>	<b>Date Issued</b>	14 <sup>th</sup> November 2019
<b>Method External References</b>	AS 5013.14.1-2010 Microbiology of food and animal feeding stuffs-General requirements and guidance for microbiological examinations – Method used for calculation		
	In-House Method Based on Oxoid “The Manual” 8th Edition 1998 & TGA Laboratory Information Bulletin July 1992, Vol 4 No1, P14		
<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 type="checkbox"/> NATA <input checked="" 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 checked="" type="checkbox"/> Spread Plate <input type="checkbox"/> MPN <input type="checkbox"/> Filtration <input type="checkbox"/> Petrifilm <input type="checkbox"/> EHS <input type="checkbox"/> ELISA <input type="checkbox"/> VIDAS UP <input type="checkbox"/> VIDAS <input type="checkbox"/> Other (please specify): _____		
<b>Method Scope</b>	This method documents the procedure for the enumeration of <i>Pseudomonas</i> species in products intended for human consumption and the feeding of animals using a quantitative spread plate method. Food samples must be processed rapidly in order to ensure optimum isolation due to the sensitivity of <i>Pseudomonas</i> species to many environmental conditions.		
<b>Method Principle</b>	Inoculation of the surface of a solid culture medium, using duplicate plates using a specified quantity of the test sample if the product is liquid, or with a specified quantity of the initial suspension in the case of other products. Inoculation, under the same conditions, using decimal dilutions of the test sample or of the initial suspension with one plate per dilution. Aerobic incubation of the plates at 30 ± 1 °C for 48 hours. Calculation of the number of <i>Pseudomonas</i> per millilitre or per gram, from the number of typical and / or atypical colonies obtained on plates at dilution levels chosen so as to give a significant result, and confirmed by the oxidase test and Oxidative-Fermentative test.		
<b>Reporting Unit</b>	the number of <i>Pseudomonas</i> sp. cfu / g or mL or per swab		
<b>LOR/LOQ</b>	< 10		

<b>Minimum amount of sample required for analysis</b>	20 g	<b>Turnaround time</b>	48 hours
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<b>Author:</b>	Document Controller	<b>Date:</b>	21 <sup>st</sup> November 2019
<b>Authorised By:</b>	National Quality Manager	<b>Date:</b>	21 <sup>st</sup> November 2019