



## METHOD SUMMARY – QWI-FM0073

<b>Method Title</b>	<b>Clostridium perfringens – Presence/Absence – Triplicate Tube – In House</b>		
<b>Document number</b>	<b>QWI-FM0073</b>	<b>Date Issued</b>	14 <sup>th</sup> December 2017
<b>Method External References</b>	AS5013.16-2006 Based on AS5013.16-2006 Food Microbiology – Microbiology of food and animal feeding stuffs – Examination for specific organisms – Clostridium perfringens		
<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 checked="" 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 type="checkbox"/> ELISA <input type="checkbox"/> VIDAS UP <input type="checkbox"/> VIDAS <input type="checkbox"/> TEMPO		
<b>Method Principle</b>	This method describes the procedure for the qualitative detection of <i>Clostridium perfringens</i> in foods using the principles of the triplicate test. A test sample of 1 g or 1 mL (or amount as specified by the client) is placed into three 10 mL single strength CMM freshly steamed to remove dissolved oxygen, and incubated at 37 °C for 46-50 hours. Each tube is then streaked onto one plate of a selective medium (TSC), then overlay with TSC agar without egg yolk plates are incubated at 37 °C for 22-26 hours, anaerobically. The presence of <i>Clostridium perfringens</i> is confirmed by biochemical analysis. If 2 or 3 tubes are confirmed positive, the final presence of <i>C. perfringens</i> is confirmed positive in g or mL of samples tested.		
<b>Reporting Unit</b>	Detected/Not detected per g or per mL as per client specifications		
<b>LOR/LOQ</b>	<1		

<b>Minimum amount of sample required for analysis</b>	Minimum of 10 g	<b>Turnaround time</b>	2 days
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<b>Author:</b>	Document Controller	<b>Date:</b>	7 <sup>th</sup> February 2018
<b>Authorised By:</b>	National Quality Manager	<b>Date:</b>	7 <sup>th</sup> February 2018