

## METHOD SUMMARY – QWI-FM0015

<b>Method Title</b>	<b>COLIFORMS ENUMERATION - AS</b>		
<b>Document number</b>	<b>QWI-FM0015</b>	<b>Date of Issued</b>	6 <sup>th</sup> February 2017
Method External References	AS 5013.4-2009 (Food Microbiology - Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of coliforms – Colony count technique).		
	AS 5013.11.1-2004 Based On AS 5013.11.1-2004 - Food Microbiology – Microbiology Of Food And Animal Feeding Stuffs – Preparation Of Test Samples, Initial Suspension And Decimal Dilutions Of Microbiological Examination – General Rules For The Preparation Of The Initial Suspension And Decimal Dilution		
	AS 5013.14-2004 Based On AS 5013.14-2004 - Food Microbiology - Microbiology Of Food And Animal Feeding Stuffs - General Rules For Microbiological Examinations- Section 7.5 ( Holding Temperature Of Media In Water Bath)		
Matrix	As listed on NATA Scope.		
ALS Department	<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		
Accreditation Status	<input checked="" type="checkbox"/> NATA <input type="checkbox"/> NON-NATA <input type="checkbox"/> N/A		
Analysis technique	<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 checked="" 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		
Method Principle	<p>This method describes a procedure for the enumeration of Coliforms present in food products intended for human consumption or feeding animals and in environmental samples (hygiene swabs) at 37 °C. This method is not suitable for the examination of Coliforms in meat for export.</p> <p>This test is designed to determine whether a sample complies with as established specification for microbiological quality.</p> <p>10 g of sample is prepared with appropriate diluent and then homogenised by stomaching. Decimal dilutions are prepared if applicable and 1mL volumes are transferred to Petri dishes and then poured with Violet Red Bile Agar (VRBA) prepared on the day of use and kept molten at 45 °C to 48 °C. The plates are incubated aerobically at 37 °C ± 1 °C for 24 ± 2 hours.</p> <p>Incubated plates are then examined and the characteristics colonies are counted and, if required, a number of colonies are confirmed by fermentation of lactose. Counts are reported CFU/g of sample or CFU/swab, including dilution factor where applicable.</p>		
Reporting Unit	Coliforms cfu per mL, g or swab		
LOR/LOQ	<10		

Minimum amount of sample required for analysis	10 g	Turnaround time	24 hrs
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<b>Author:</b>	Document Controller	<b>Date:</b>	20 <sup>th</sup> September 2017
<b>Authorised By:</b>	National Quality Manager	<b>Date:</b>	20 <sup>th</sup> September 2017

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