

## METHOD SUMMARY – QWI-FM0009

<b>Method Title</b>	Total Viable Count – Filtration - APHA		
<b>Document number</b>	<b>QWI-FM0009</b>	<b>Date Issued</b>	26 <sup>th</sup> September 2018

Method External References	APHA 4 <sup>th</sup> Edition – Compendium of Methods for the Microbiological Examination of Foods		
Matrix	As listed on NATA Scope.		
ALS Department	<input type="checkbox"/> Pharmaceutical Chemistry <input type="checkbox"/> Water Microbiology <input type="checkbox"/> Pharmaceutical Microbiology <span style="float: right;"> <input checked="" type="checkbox"/> Food Microbiology  <input type="checkbox"/> Food Chemistry         </span>		
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 type="checkbox"/> Pour Plate <input type="checkbox"/> Spread Plate <input type="checkbox"/> MPN <input checked="" 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 the steps to enumerate the total viable aerobic count of micro-organisms in filterable foods, ingredients and beverages.</p> <p>This method is used where it is desirable to enumerate low numbers of bacteria.</p> <p>This test is designed to determine whether a sample complies with an established specification for microbiological quality.</p> <p>100 mL, 10 mL, 1 mL or other amount of sample as required by the Client is filtered using 0.45 µm sterile membrane filter. After an appropriate number of rinses the filter membrane is then transferred onto a pre-poured Plate Count Agar (PCA) and incubated at 30 ± 1 °C for 66 to 74 hours.</p> <p>Incubated plates are examined and counts reported cfu/mL of sample, taking into account the dilution factor where applicable</p>		
Reporting Unit	Total Viable Count cfu/100 mL or amount specified by the client		
LOR/LOQ	<1		

Minimum amount of sample required for analysis	100 mL	Turnaround time	3 days
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<b>Author:</b>	Document Controller	<b>Date:</b>	3 <sup>rd</sup> October 2018
<b>Authorised By:</b>	National Quality Manager	<b>Date:</b>	3 <sup>rd</sup> October 2018