

## METHOD SUMMARY – QWI-FM0122

<b>Method Title</b>	Spoilage Bacteria and Yeast in Brewing Products – In House		
<b>Document number</b>	<b>QWI-FM0122</b>	<b>Date Issued</b>	21 <sup>st</sup> September 2017

Method External References	The Oxoid Manual		
	CM0309 WLNA		
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 type="checkbox"/> NATA <input checked="" 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 checked="" 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 is used for the enumeration of Spoilage Anaerobic and Aerobic Bacteria and yeast in Brewing Products. A known volume of sample is either filtered (1 mL or other volume as specified by client) or surface plated (0.1 mL) onto a pre-poured selective agar plate WLNA and incubated at 25 °C for 5 days under anaerobic conditions (Spoilage Anaerobic Bacteria) or aerobic conditions (Spoilage Aerobic Bacteria and yeast). Any colonies growing on WLNA is counted and then examined microscopically to determine if the colonies obtained are of the bacteria or yeast. The result is expressed as Spoilage Anaerobic Bacteria cfu per volume tested and/or, Spoilage Aerobic Bacteria and/or yeast cfu per volume tested.</p>		
Reporting Unit	cfu/100 mL or cfu/ mL; cfu/g		
LOR/LOQ	<1 or <100		

Minimum amount of sample required for analysis	100 mL or 10 g	Turnaround time	6 working days
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<b>Author:</b>	Document Controller	<b>Date:</b>	13 <sup>th</sup> February, 2018
<b>Authorised By:</b>	National Quality Manager	<b>Date:</b>	13 <sup>th</sup> February, 2018