

METHOD SUMMARY – QWI- FM0045

Method Title	WILD YEAST – PRODUCTS FROM BREWING PROCESS – SPREAD PLATE – IN HOUSE		
Document number	QWI – FM0045	Date of Issued	6 th February 2017

Method External References	<p>Oxoid Manual MYGP Medium</p> <p>ASBCMT Australian Society of Brewing Chemists Microbiological Techniques – Media and Reagents 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</p> <p>AS 5013.14.1-2010 Based on AS 5013.14.1 - Food Microbiology - Microbiology of food and animal feeding stuffs - General rules for microbiological examinations- section 7.5 (holding temperature of media in water bath)</p>
Matrix	Brewing products
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 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 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 documents the procedure for the recovery and enumeration of wild yeasts in brewing products (where high counts of culture yeasts are expected) capable of growing on MYGP + copper sulphate at an incubation temperature of 30°C. Inoculation of the surface of a solid selective culture medium, MYGP + Copper, with a specified quantity of the test sample. Inoculation, under the same conditions, using decimal dilutions of the test sample with one plate per dilution.</p> <p>Aerobic incubation of the plates at 30 °C and examination after 72 hours.</p> <p>Calculation of the number of wild yeast per mL of sample 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 a wet mount.</p>
Reporting Unit	cfu per volume tested
LOR/LOQ	< 10



Minimum amount of sample required for analysis	Minimum of 50 mL	Turnaround time	3 days
--	------------------	-----------------	--------

Author:	Document Controller	Date:	7 th February 2017
Authorised By:	National Quality Manager	Date	7 th February 2017

CONFIDENTIAL