

METHOD SUMMARY – QWI-FM0074

Method Title	Alicyclobacillus Species Enumeration – In House		
Document number	QWI-FM0074	Date Issued	2 nd November 2017

Method External References	APHA - Compendium of Methods for the Microbiological Examination of Foods 4th Edition 2001 Chapter 24.44		
	VWR Chemicals - YSG Medium Reference 723650YF July 2014		
	AIFST - Spoilage of Preserved Foods: Causes and Diagnostics 2001		
Matrix	Fruit juices concentrates, fruits juices and other acidic 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 checked="" 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 is used for the enumeration of Alicyclobacillus species in fruit juices concentrates, fruit juices and other acidic products. A known volume of sample is heat treated at 80 °C for 10 minutes, cooled down in ice water prior to being tested. The sample is either filtered (1 mL or other volume as specified by client) onto a pre-poured selective agar plate (YSGA) or pour plated (1 mL or other volume as specified by client) using tempered YSGA medium. Inoculated agar plates are then incubated at 45 °C for 5 days under aerobic conditions. Any colonies growing on YSG is counted and then confirmed as Alicyclobacillus species using biochemical analysis. The result is expressed as Alicyclobacillus species (cfu per volume tested).</p>		
Reporting Unit	Alicyclobacillus species count per volume tested		
LOR/LOQ	< 10		

Minimum amount of sample required for analysis	10 g or amount specified by client	Turnaround time	5 days
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Author:	Document Controller	Date:	13 th December 2017
Authorised By:	National Quality Manager	Date	13 th December 2017