

METHOD SUMMARY – QWI-FM0054

Method Title	PSYCHOTROPHIC BACTERIA – ENUMERATION - AS		
Document number	QWI-FM0054	Date Issued	8 th May 2018

Method External References	AS 5013.23-2004 – Food Microbiology
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 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 a horizontal procedure for the enumeration of psychotrophic microorganisms using a spread plate technique at 6.5 °C</p> <p>An initial suspension with a minimum amount of 10 g of product is prepared. Serial dilutions of the food being tested may be required for testing.</p> <p>0.1 mL aliquots of initial suspension are transferred to Petri dishes and then spread over a pre-poured Plate Count Agar. The plates are then incubated aerobically at 6.5 °C for 10 days.</p> <p>Colonies are counted on each plate. The final result is calculated from the mean count of a number of plates, taking the dilution factor into account. The result is recorded cfu per mL or per g</p>
Reporting Unit	Determination of Psychotrophic organisms CFU/g or CFU/mL
LOR/LOQ	<10 or <100

Minimum amount of sample required for analysis	10 g	Turnaround time	10 days
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Author:	Document Controller	Date:	11 th May 2018
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