

METHOD SUMMARY – QWI-FM0012



Method Title	Anaerobic Plate Count – In House		
Document number	QWI-FM0012	Date Issued	5 th December 2018

Method External References	Based on AS 5013.5 2004, AS 5013.11.1-2004, AS 5013.14-2010		
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 checked="" type="checkbox"/> Pour Plate <input 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"/> Other (please specify): _____		
Method Scope	This method describes the steps to enumerate the anaerobic plate count in food samples and in hygiene swabs.		
Method Principle	<p>This test is designed to determine whether a sample complies with as established specification for microbiological quality.</p> <p>For Food samples: 10 g of sample is prepared with appropriate diluent and then homogenised by stomaching.</p> <p>For Hygiene swabs: place swab directly in 9 mL of NB Tween.</p> <p>Decimal dilutions are prepared if applicable and 1mL volumes are transferred to Petri dishes and then poured with Plate Count Agar kept molten at 45 °C to 48 °C. The plates are incubated anaerobically at 30 ± 1 °C for 72 ± 3hours.</p> <p>Incubated plates are then examined and counts reported cfu/g of sample, cfu/mL or cfu/swab, including dilution factor where applicable.</p>		
Reporting Unit	Determination of SPC cfu/g		
LOR/LOQ	< 10 cfu/g		

Minimum amount of sample required for analysis	20 g	Turnaround time	3 days
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Author:	Document Controller	Date:	6 th August 2019
Authorised By:	National Quality Manager	Date:	6 th August 2019